



#8

SEQUENCE LISTING.ST25
SEQUENCE LISTING

<110> Garcia, Pablo D
Hardy, Stephen F
Escobedo, Jaime
Williams, Lewis T

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<130> 002441.00008

<140> 10/016,604

<141> 2001-12-07

<150> 6,0251,830

<151> 2000-12-07

<160> 225

<170> PatentIn version 3.1

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<212> DNA

<213> Homo sapiens

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<210> 16

<211> 841

<212> DNA

<213> Homo sapiens

<400> 16

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gaacagtatt	agattccatt	gcccattggaa	atagacttac	tccttatgac	180
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<210> 17

<211> 873

<212> DNA

<213> Homo sapiens

<400> 17

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<210> 18

<211> 733

<212> DNA

<213> Homo sapiens

<400> 18

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<211> 785

<212> DNA

<213> Homo sapiens

<400> 19

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<210> 20
<211> 1090
<212> DNA
<213> Homo sapiens

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<211> 705
<212> DNA
<213> Homo sapiens

<400> 21						
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 <211> 862
 <212> DNA
 <213> Homo sapiens

<400> 22

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<210> 23
 <211> 865
 <212> DNA
 <213> Homo sapiens

<400> 23

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<210> 24
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 <212> DNA
 <213> Homo sapiens

<400> 24

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<212> DNA
<213> Homo sapiens

<400> 25

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<210> 26
<211> 860
<212> DNA
<213> Homo sapiens

<400> 26

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<211> 778
<212> DNA
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<400> 27

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<210> 28
<211> 668
<212> DNA
<213> Homo sapiens

<220>
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<223> N=A,G,C,T

<400> 28

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agatgacaat	gcccgaaaag	ttattgtaga	attaatgcc	tataaaatg	caaattccaga	600
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agaatatn						668

<210> 29
<211> 659
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(659)
<223> N=A,G,C,T

<400> 29

cggccttacg	ccccggggag	anntcaagta	ggagcgcctg	cccgagctga	gactagatgt	60
gaaccttca	ccatgaaaat	gttaaaagat	ataaaaggaag	gagttaaaca	atatggatcc	120
aactccccctt	atataagaac	agtatttagt	tccattgcc	atggaaatag	acttactcct	180
tatgactggg	aaatttggc	caaatcttcc	cttcatcct	ctcagttatct	acagttaaa	240
acctgttgg	ttgatgggt	acaagaacag	gtacgaaaaa	aatcaggct	ctaagccac	300
tgttaat	gacgcagacc	aattgttagg	aacaggttca	aattggagca	ccattaacca	360
acaatcagt	atgcagaatg	aggctattga	acaagtaagg	gctatttgc	tcagggccct	420
ggggaaaaat	caggaccctag	gaacagctt	cccttattaa	tcaatttagac	aaggctctaa	480
agggccat	cctgactttg	tggcaagatt	acaagatgt	gctcaaaaatg	ctattacaga	540
tgacaatgcc	cgaaaaagtta	ttgttagaaat	aatggccat	gaaaatgcaa	atccagaatg	600
tcagtcggcc	ataaaagccat	taaaaggaaa	agttccagca	ggagttgtat	taattaccg	659

SEQUENCE LISTING.ST25

<210> 30
<211> 664
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(664)
<223> N=A,G,C,T

<400> 30

nccggcctta	cggccgggnc	aacaatggca	tgcagagnnt	actatcccag	cctccctata	60
cagccccagg	aatcaaaaaa	tcatgactaa	aatgggatag	ctccctaaaa	agggactagg	120
aaagaaaagaa	gtcccaattg	aggctgaaaa	aaattaaaaa	agaaaaggaa	tagggcatcc	180
tttttaggag	cggtactgt	agaggctcca	aaacccatc	cattaacttg	ggaaaaaaaaa	240
aactgtntgg	taaatcagca	gccgnttcca	aaacaaaagc	tggaggcctt	acacttatta	300
ncaaagaanc	cattanaaaa	aggacattga	gccttcattt	tcgccttgg	attctgtttg	360
tgattcaaaa	aaaatccggc	anatggcgta	tgctaactga	nccattaatg	ccgtaattca	420
accatgggg	gctctccac	cccgttgcc	ctntccagcc	atggtcccct	ttaattataa	480
ttgatctgaa	ggattgttt	tttaccattc	ctctggcaaa	acaggatttt	gaaaaatttg	540
cttttaccac	accagcctaa	ataataaana	accanccacc	agtttcagt	ggaaagtatt	600
gcctcaggg	atgcttaata	gttcaactat	tngtcagctc	aagctctgca	accagttaga	660
gacn						664

<210> 31
<211> 743
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(743)
<223> N=A,G,C,T

<400> 31

ncctggcctt	acggccgggg	ctgaaaaaaaa	tcaaaaaaaga	aaaggaatag	ggcatcctt	60
ttaggagcgg	tcactgtaga	gcctccaaaa	cccattccat	taacttgggg	gaaaaaaaaa	120
caactgtat	gtaaatcagc	agcgcttcca	aaacaaaaac	tggaggctt	acatttatta	180
gcaaaagaaac	aattaaaaaa	aggacattga	gccttcattt	tcgccttgg	attctgtttg	240
taattcagaa	aaaatccggc	agatggcgta	taatgccgt	attcaacca	tgggggctct	300
cccaccccg	ttgcctctc	cagccatgg	cccccttaat	tataattgat	ctgaaggatt	360
gttttttac	cattcctctg	gcaaaacagg	atttgagaa	atttgcttt	accacaccag	420
cctaaataat	aaagaaccag	ccaccagg	tcagtggaaa	gtattgcctc	agggaatgct	480
taatagttca	actatttgc	agctcaagct	ctgcaaccag	ttagagacaa	gttttcagac	540
tgttacatcg	ttcactatgt	tgatatttg	tgtgctgcag	aaacgagaga	caaattaatt	600
gaccgttaca	catttctgca	gacagagg	gccaacgcgg	gactgacaat	aacatctgat	660
aagattcaaa	cctctactcc	ttccgttac	ttgggaatgc	aggttagagga	aaggaaaatt	720
aaaccacaaa	aaaaaaaaaa	aan				743

<210> 32
<211> 679
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(679)
<223> N=A,G,C,T

<400> 32

SEQUENCE LISTING ST25

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gtatttcaga	aaaaatccgg	cagatggcgt	atgctaaactg	agccattaat	gccgttaattc	120
aacccatggg	ggctctccca	ccccgggtgc	cctctccagc	catggtcccc	ttaattata	180
attgatctga	aggattgttt	tttaccatt	cctctggcaa	aacaggattt	tgaaaaattt	240
gcttttacca	caccagccta	aataataaaag	aaccagccac	caggtttcag	tgaaaaagtat	300
tgcctcangg	aatgtttaat	agttcaacta	tttgcagct	caaagctctg	cacccagnta	360
gagacaagtt	tcaagactgg	tcatcgctt	atgtatatt	ttgtgtgctg	cagaacgaga	420
gacaaattat	tggccgttca	cattttgca	gacagaggtt	gccaacgcgg	gactgacaat	480
aacatctgtat	aagatttaaac	ctctactcct	tccgtacttg	ggaatgcagg	tggaggaaag	540
aaaaattaac	ccccnnaaaa	ttgaatttang	aaaagacccn	ttaaagcctt	aatgagttc	600
aaaaagttgc	taggagaaaac	taattggatt	tggaganatt	aattggattt	ggcaactnta	660
ggcattccta	cttatgcen					679

<210> 33
<211> 656
<212> DNA
<213> *Homo sapiens*

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<220>
<221> misc_feature
<222> (1)..(656)
<223> N=A,G,C,T
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<400> 33

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aagcatgtga	caatgaatat	gcaaagaag	cgcagcagtc	caccaggtgt	gggatatgtg	120
tggcacaatt	caagacaatg	attaaacctc	cacttgatgt	tgcaaaagag	atttgaaaa	180
atttgcttc	accacaccag	cctaaataat	aaagaaccag	ccaccagggtt	tcagtgaaaa	240
gtattgcctc	agggaatgct	taatagttca	actatttgtc	agctcaagct	ctgcaaccag	300
ttagagacaa	gttttcagac	tgttacatcg	ttcactatgt	tgatattttg	tgtgctgcag	360
aaacgagaga	caaattaatt	gaccgttaca	catttctgca	gacagaggtt	gccaacgcgg	420
gactgacaat	aacatctgat	aagattcaag	cctctactcc	tttccgttac	ttggaaatgc	480
aggttagagga	aaggaaaatt	aaaccacaaa	aaaatagaaaa	taagaaaaga	cacattaaaa	540
gcattaaatg	agtttcaaaa	gttgcttagga	gatactaatt	ggattttggag	atattaattg	600
gatttggcca	actctaggca	ttcctactta	tgccatgtca	aatttggttct	ctttct	656

<210> 34
<211> 723
<212> DNA
<213> *Homo sapiens*

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<220>
<221> misc_feature
<222> (1)..(723)
<223> N=A,G,C,T
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SEQUENCE LISTING.ST25

<210> 35
 <211> 656
 <212> DNA
 <213> Homo sapiens

<400> 35

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gagcagagt	gttgcgcgt	attacagtgt	taacaagatt	ttaatcagtc	tattaacatt	120
gtatcagatt	ctgcatatgt	agtacaggct	acaaaggata	ttgagagagc	cctaataaaa	180
tacattatgg	atgatcagg	aaacccgctg	tttaatttgt	tacaacaaaa	tgtaagaaaa	240
agaaatttcc	cattttatata	tactcatatt	cgagcacaca	ctaatttacc	agggcctta	300
actaaagcaa	atgaacaagc	tgacttgcta	gtatcatctg	cattcatgga	agcacaagaa	360
cttcatgcct	tgactcatgt	aaatgcaata	ggattaaaaaa	ataaaatttga	tatcacatgg	420
aaacagacaa	aaaatattgt	acaacattgc	gcccagtgtc	agattctaca	cctggccact	480
caggaggtaa	gagttaatcc	cagaggtcta	tgtcctaattg	tgttatggca	aatggatgtc	540
atgcacgtac	cctcatttgg	aaaattgtca	tttgcctatg	tgacagttga	tacttattca	600
catttcata	ggcaacctg	ccagacagga	gaaagtactt	cccatgttaa	gagaca	656

<210> 36
 <211> 773
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(773)
 <223> N=A,G,C,T

<400> 36

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agagcagagt	tggttgcgcgt	cattacagtg	ttaacaagat	ttaatcagtc	ctattaacat	120
tgtatcagat	tctgcataatg	tagtacaggc	tacaaaggat	attgagagag	ccctaataaa	180
atacattatg	gatgatcaat	taaacccgct	tttaatttg	ttacaacaaa	atgtaagaaaa	240
aagaatttcc	ccattttata	ttactcatat	tcgagcacac	actaatttac	cagggccttt	300
aactaaagca	atgaacaag	ctgacttgct	agtatcatct	gcattcatgg	aggcacaaga	360
acttcatgcc	ttgactcatg	taaatgcaat	aggattaaaa	aatagatttg	atatcacatg	420
gaaacagaca	aaaatatttg	tacaacattg	cacccagtg	cagattctac	acctggccac	480
tcaggaggca	agagttaatc	ccagaggtct	atgtcctaatt	gtgttatggc	aatggatgt	540
catgcacgta	ccttcatttg	aaaattgtc	atttgcctat	gtgacagttg	atacttattc	600
acatttcata	tgggcaacct	gccagacagg	agaaagtact	tccatgtta	agagacattt	660
attatcttgt	tttcctgtca	tgggagttcc	agaaaaaagt	aaaacagaca	atgggcccang	720
ttactgttagt	aaagcagttc	aaaattctt	aaatcagttg	aaaattacac	atn	773

<210> 37
 <211> 721
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(721)
 <223> N=A,G,C,T

<400> 37

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nttnatgg	tgcngtngtt	acacctgtta	acaagatnt	aatcagtcata	ttaacattgt	120
atcaaattct	gcatatgtag	nacaggctac	aaaggatatt	gagagagccc	taatcaaata	180
cattatggat	gatcagttaa	acccgctgtt	taatttgcata	caacaaaatg	taagaaaaatg	240
aaatttccca	ttttatatta	ctcatattcg	agcacacact	aatttaccag	ggcctttnac	300
taaagcaaat	gaacaagctg	acttgctngt	atcatctgca	ttcatgttgc	cacaagaact	360

SEQUENCE LISTING.ST25

tcatgccttg	actcatgtaa	atgcaatagg	attaaaaaaat	aaatttgata	tcacatggaa	420
acagacaaaa	aatattgtac	aacattgcac	ccagtgtcag	attctacacc	tggccactca	480
ggaggcaaga	gttaatccca	gaggtctatg	tcctaattgt	ttatggcaaa	tggatgtcat	540
gcacgtacct	tcatttgaa	aattgtcatt	tgtccatgt	acagntgata	cttattcaca	600
tttcatatgg	gcaacctgcc	agacangaga	aagtncttcc	catgttaaga	gacatttatt	660
attttgtnt	cctgnattt	ggagttccan	aaaaagttaaa	acagacantg	ggccagggtta	720
c						721

<210> 38
<211> 672
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(672)
<223> N=A,G,C,T

<400> 38

tacggcctta	cggccggggcc	aagatgagtc	atcaaaaactc	agtatcaatt	gactcaaaga	60
gcagagttgg	ttgccgtcnt	tacagtgtta	acaagattt	aatcagtcta	ttaacattgt	120
atcagattct	gcatatgttag	tacaggctac	aaaggatatt	gagagagccc	taatcaaata	180
cattatggat	gatcgtttaa	acccgctgtt	taatttgtta	caacaaaatg	taagaaaaag	240
aaatttccca	ttttatattta	ctcatattcg	agcacacact	aatttaccag	ggcctttaac	300
taaagcaaat	gaacaagctg	acttgcttagt	atcatctgca	ttcatgttgaag	cacaagaact	360
tcatgccttg	actcatgtaa	atgcnatagg	attaaaaaaat	aaatttgata	tcacctggaa	420
acagacaaaa	aatattgtac	aacattgcac	ccnnngtctag	attctacacc	tggccnctcn	480
ngaggcaaga	gttaatcccn	cangctatg	tcctnatgt	ttatggcaaa	nggatgtnat	540
gcncnnccct	tccttngaa	aannnnnntt	tgtncnnnn	acannngata	cttattcavn	600
ntnnntatng	gnnacccccc	ccacnngana	aanaacctnc	ccnnnnnnana	naaantnnntt	660
attttnttt	tn					672

<210> 39
<211> 757
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)..(757)
<223> N=A,G,C,T

<400> 39

ncggcctta	cggccggggcc	aagatgagtc	atcaaaaactc	agtatcaatt	gactcaaaga	60
gcagagttgg	ttgccgtcat	tacagtgtta	acaagattt	aatcagtcta	ttaacattgt	120
atcagattct	gcatatgttag	tacaggctac	aaaggatatt	gagagagccc	taatcaaata	180
cattatggat	gatcgtttaa	acccgctgtt	taatttgtta	caacaaaatg	taagaaaaag	240
aaatttccca	ttttatattta	ctcatattcg	agcacacact	aatttaccag	ggcctttaac	300
taaagcaaat	gaacaagctg	acttgcttagt	atcatctgca	ttcatgttgaag	cacaagaact	360
tcatgccttg	actcatgtaa	atgcaatagg	attaaaaaaat	aaatttgata	tcacatggaa	420
acagacaaaa	aatattgtac	aacattgcac	ccagtgtctag	attctacacc	tggccactca	480
ggaggcaaga	gttaatccca	gaggtctatg	tcctaattgt	ttatggcaaa	tggatgtcat	540
gcacgtacct	tcatttgaa	aattgtcatt	tgtccatgt	acagttgata	cttattcaca	600
tttcatatgg	gcaacctgcc	agacaggaga	aagtacttcc	catgttaaga	gacatttatt	660
atcttgttt	cctgtcatgg	gagttccaga	aaaagttaaa	acagacaatg	ggccagggtta	720
ctggagtaaa	gcagttcaaa	aattctaaa	tcagtgg			757

<210> 40
<211> 777
<212> DNA

SEQUENCE LISTING.ST25

<213> Homo sapiens

<400> 40

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cttcccttc	accctctcag	tatctccagt	ttaaaacctg	gtggattgat	ggggtacaag	180
aacaggtacg	aaaaaaatcag	gctactaatc	ctgttgctta	tatagatgaa	gaccaattgc	240
taggaagagg	tccaaactgg	gacactatta	accaacaatc	agtaatgaaa	atgaggctat	300
tgaacaacta	taagggctat	ttgcctcagg	gcctggaaa	acattcagga	cccaggaacc	360
tcatgccctt	cttttagttc	aatcagacaa	ggctctaaag	agccatatcc	agactttgtg	420
gcaagggtgc	aagatgcagc	tcaaaaatcc	attgcagta	acgcccggaaa	agttattgt	480
gaaataatgg	cttatcaaaa	cgcaaattca	gagtgtcaat	cagccataaa	gccattaaga	540
ggaaatgttt	cagcaggagt	tgatgttaatt	acagaatatg	tgaaggcttg	tgatggatt	600
ggaggagcta	tgcataaggc	aatgccattg	gctcaagcaa	ttacaggggt	tgctatagga	660
ggacaagtt	aaacatttg	ggggaaatgt	tataattgt	gtcaaattcg	tcatctaaaa	720
aagaattgcc	cgagctaaa	ttacccccc	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	777

<210> 41

<211> 670

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(670)

<223> N=A,G,C,T

<400> 41

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ccttatatta	aatattattt	aaattccatt	gctcatgaa	atagacttat	ttcttatgat	120
tggaaattc	tggctatatac	ttcccttca	ccctctcag	atctccagtt	taaaacctgg	180
tggattgatg	gggtacaaga	acaggtaccg	aaaaaaatcag	gctactaatc	ctgttgctta	240
tatagatgaa	gaccaattgc	taggaagagg	tccaaactgg	gacactatta	accaacaatc	300
agtaatgaaa	atgaggctat	tgaacaacta	taagggctat	ttgcctcagg	gcctggaaa	360
acattcagga	cccaggaacc	tcatgccctt	cttttagttc	aatcagacaa	ggctctaaag	420
agccatatcc	agactttgtg	gcaagggtgc	aagatgcagc	tcaaaaatcc	attgcaggt	480
acgcccggaaa	agttattgt	gaaataatgg	cttatcaaaa	cgcaaattca	gagtgtcaat	540
cagccataaa	gccattaaga	ggaaatgttt	cagcaggagt	tgatgttaatt	acagaatatg	600
tgaaggcttg	tgatggatt	ggaggagcta	tgcataaggc	aatgccattg	gctcaagcaa	660
ttacaggggt						670

<210> 42

<211> 397

<212> DNA

<213> Homo sapiens

<400> 42

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ttaaatccca	ttgctcatgg	aaatagactt	atttcttatg	attggaaat	tctggctaaa	120
tcttccttt	caccctctca	gtatctccag	ttaaaacct	ggtgattgat	tgggtacaa	180
gaacaggtac	aaaaaaatca	ggctactaat	cctgttgctt	atatagatga	agaccaattg	240
ctaggaagag	gtccaaactg	ggacactatt	accaacaat	cagtaatgaa	aatgaggct	300
ttgaacaact	ataagggcta	ttgcctcag	gggcctgg	aaacattcag	gaccaggg	360
acctcatgcc	cttcttttag	gttcaatcag	acaagg			397

<210> 43

<211> 413

<212> DNA

<213> Homo sapiens

SEQUENCE LISTING.ST25

<400> 43

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gtacaacatt	gcacccagtg	tcagattcta	cacctggcca	ctcaggaagc	aagagttat	180
cccagaggtc	tatgtcctaa	tgtttatgg	caaattggat	tcatgcacgt	actttcattt	240
ggaaaattgt	catttgccta	tgtgacagtt	gatacttatt	cacatttcat	atgggcaacc	300
tgccagacag	gagaaagtct	tcccatttta	aaagacattt	attatctgt	tttcctgtca	360
tgggagttcc	agaaaaagtt	aaaacagaca	atgggcccagg	ttctgttagta	aag	413

<210> 44

<211> 11122

<212> DNA

<213> Homo sapiens

<400> 44

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attgtttgtt	ggagtgttct	gtgttgggct	aatgtgaag	cctcttata	cttctacctt	180
actcagtcac	catatggggg	ctgccccaga	gaggtcatga	cctcaagtga	ggaagtactc	240
agcagctgag	ccaggcccta	ctgtatagctg	gaggatgctg	ctgcccattgc	tgcccactgt	300
gaggcagcaa	gcccttgctt	gaagggggat	ctggatagta	tgtttctgtg	tctaccaccc	360
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agttggaggt	tgcagtgggg	tgaggtcaca	caactgcact	ccagactggg	tgacagatgt	540
agactccatc	tcaaaaaaaaaa	aaaaaaaag	aaaagaaaag	aaaaaaagaaa	aagaatcagg	600
aaatactaatt	atttaaagga	taggtgaatg	gaggaaaata	atcaattgaa	ggaggctgag	660
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ggctcatgcc	tgtatccca	gcactctgag	aggctgaggt	tgtggggaaa	agcaagagag	1020
atcagattgt	tactgtgtct	gtgttagaaag	aagttagacat	aggagactcc	attttgttct	1080
gtactaagaa	aaattcttct	gccttgagat	tctgttaatc	tatgacctt	cccccaaccc	1140
cgtgcctct	gaaacagggt	ctgtgtcaaa	ctcagggtt	aatggattaa	gggttgcga	1200
agatgtgctt	tgttaaacc	atgcttgaag	gcagcatgtt	ccttaagagt	catcaccact	1260
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ggaaagcaag	gtattgtc	aggtttctcc	ccatgtgata	gtctgaaata	tggcctcg	1380
ggaaggggaaa	gaccgttgc	tccccccagcc	tgacaccctgt	aaagggtctg	tgctgaggag	1440
gattagtgtt	agaggaaggc	atgcctctt	cagttgagac	aagaggaagg	catctgtctc	1500
ctgcccgtcc	ctggggcaat	gaatgtctcg	gtataaaacc	cgattgtt	tacgttccat	1560
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tcaaaaaat	ctaggagata	ttaattggat	tcggccaact	ctaggcattc	ctacttatgc	4740
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taatagaaca	ctaaaaactc	aatttgcac	acaaaaagaa	ggggagaca	gtaggagtg	6180
taccactcct	cagatgcac	ttaatctat	actctata	ttaaattttt	taaacattt	6240
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SEQUENCE LISTING .ST25

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tgatagata	tggttacctg	gccccataga	tgatcgctgc	cctgccaaac	ctgaggaaga	6600
agggatgatg	ataaaatattt	ccattggta	tcgttatcct	cctatttgcc	tagggagagc	6660
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catcagtaga	ttcacttatac	acatggtaag	cgggatgtca	ctcaggccac	gggtaaatta	6780
tttacaagac	ttttcttatac	aaagatcatt	aaaattttaga	ccttaaaggga	aaccttgccc	6840
caaggaaatt	cccaaagaat	caaaaaatac	agaagttta	gtttgggaag	aatgtgtgc	6900
caatagtgcg	gtgatattat	aaaacaatga	atttggaaact	attatagatt	gggcacctcg	6960
aggtcaattc	taccacaatt	gctcaggaca	aactcagtcg	tgtccaagtg	cacaagttag	7020
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cattagaatt	tggtctggaa	atcaaactt	agaaacaaga	gattgtaaagc	cattttatac	7260
tgtcgaccta	aattccagtc	taacagttcc	tttacaaaatg	tgcgtaaagc	ccccttatat	7320
gctagtgtt	gaaaaatatag	ttatcaaacc	agactcccg	actataacct	gtgaaaattt	7380
tagattgtctt	acttgcattt	attcaacttt	taattggcaa	caccgtattt	tgctggtgag	7440
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agacatttcc	aaattaaaag	aacaaatttt	cgaagcatca	aaagcccatt	taaattttgtt	7980
gccaggaact	gaggcaattt	caggagttgc	tgatggcctc	gcaaatctt	accctgtcac	8040
ttgggttaag	accattggaa	gtacatcgat	tataaatctc	atattaatcc	ttgtgtgcct	8100
gttttgtctg	ttgttagtct	gcaggtgtac	ccaaacagtc	cgaagagaca	gcgaccatcg	8160
agaacgggccc	atgatgacga	tggcggttt	gtcgaaaaga	aaagggggaa	atgtggggaa	8220
aagcaagaga	gatcaaattt	ttactgtgtc	tgtgtagaaa	gaagtagaca	taggagactc	8280
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catcaccact	ccctaatttcc	aagtacccag	ggacacaaaa	actgcagaag	gccgcaggga	8520
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tgccctcg	gaaagggaaa	gaccgtaccg	tccccccagcc	cgacacctgt	aaagggcttg	8640
tgctgaggag	gattgtttaa	agaggaagga	atgccttctt	cagttgagac	aagaggaagg	8700
catctgtctc	ctgcctgtcc	ctgggcaatg	gaatgtctcg	gtataaaaacc	cgattgtatg	8760
ctccatctac	tgagataggg	aaaaaccggc	ttagggctgg	aggtgggacc	tgcgggcagc	8820
aatactgttt	tgtaaagcat	tgagatgttt	atgtgtatgc	atatccaaaa	gcacagcact	8880
taatccttta	cattgtctat	gatgccaaga	cctttgttca	cgttgggttgc	tgctgaccct	8940
ctccccacaa	ttgtcttgc	accctgacac	atccccctct	ttgagaaaaca	cccacagatg	9000
atcaataaaat	actaaggaaa	ctcagaggct	ggcgggatcc	tccatatgt	gaacgctggt	9060
tccccgggtc	cccttatttc	tttctctata	ctttgtctct	gtgtttttt	cttttccaaa	9120
tctctcg	tccacccatca	gaaacacccca	caggtgtgt	ggggcaacccc	acccctaca	9179

<210> 46
 <211> 279
 <212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <222> (1)...(279)
 <223> Xaa=Any amino acid

<400> 46
 Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu Thr Arg Cys Glu Pro
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SEQUENCE LISTING .ST25

Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu Gly Val Lys Gln Tyr
 20 25 30
 Gly Ser Asn Ser Pro Tyr Ile Arg Thr Val Leu Asp Ser Ile Ala His
 35 40 45
 Gly Asn Arg Leu Thr Pro Tyr Asp Trp Glu Ile Leu Ala Lys Ser Ser
 50 55 60
 Leu Ser Ser Ser Gln Tyr Leu Gln Phe Lys Thr Trp Trp Ile Asp Gly
 65 70 75 80
 Val Gln Glu Gln Val Arg Lys Lys Ser Gly Tyr Xaa Ala His Cys Xaa
 85 90 95
 Tyr Arg Arg Arg Pro Ile Val Arg Asn Arg Ser Lys Leu Glu His His
 100 105 110
 Xaa Pro Thr Ile Ser Asp Ala Glu Xaa Gly Tyr Xaa Thr Ser Lys Gly
 115 120 125
 Tyr Leu Pro Gln Gly Leu Gly Lys Asn Ser Gly Pro Arg Asn Ser Phe
 130 135 140
 Pro Tyr Xaa Phe Asn Xaa Thr Arg Leu Xaa Arg Ala Ile Ser Xaa Leu
 145 150 155 160
 Cys Gly Lys Ile Thr Arg Cys Cys Ser Lys Val Tyr Tyr Arg Xaa Gln
 165 170 175
 Cys Pro Lys Ser Tyr Cys Arg Ile Asn Gly Leu Xaa Lys Cys Lys Ser
 180 185 190
 Arg Met Ser Val Gly His Lys Ala Ile Lys Arg Lys Ser Ser Ser Arg
 195 200 205
 Ser Xaa Cys Asn Tyr Arg Ile Cys Glu Gly Leu Xaa Trp Asp Trp Arg
 210 215 220
 Ser Tyr Ala Xaa Gly Asn Ala Asn Gly Ser Ser Asn Glu Gly Ala His
 225 230 235 240
 Ser Arg Arg Thr Ser Xaa Asn Ile Trp Glu Lys Met Leu Xaa Leu Trp
 245 250 255
 Ser Asn Arg Ser Ser Glu Lys Glu Leu Pro Arg Leu Lys Gln Ala Lys
 260 265 270
 Lys Lys Lys Lys Lys Lys
 275

<210> 47
 <211> 288
 <212> PRT
 <213> Homo sapiens

<400> 47
 Glu Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu Thr Arg Cys Glu
 1 5 10 15
 Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu Gly Val Lys Gln
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 Tyr Gly Ser Asn Ser Pro Tyr Ile Arg Thr Val Leu Asp Ser Ile Ala
 35 40 45
 His Gly Asn Arg Leu Thr Pro Tyr Asp Trp Glu Ile Leu Ala Lys Ser
 50 55 60
 Ser Leu Ser Ser Gln Tyr Leu Gln Phe Lys Thr Trp Trp Ile Asp
 65 70 75 80
 Gly Val Gln Glu Gln Val Arg Lys Asn Gln Ala Thr Lys Pro Thr Val
 85 90 95
 Asn Ile Asp Ala Asp Gln Leu Leu Gly Thr Gly Pro Asn Trp Ser Thr
 100 105 110
 Ile Asn Gln Gln Ser Val Met Gln Asn Glu Ala Ile Glu Gln Val Arg
 115 120 125
 Ala Ile Cys Leu Arg Ala Trp Gly Lys Ile Gln Asp Pro Gly Thr Ala
 130 135 140
 Phe Pro Ile Asn Ser Ile Arg Gln Gly Ser Lys Glu Pro Tyr Pro Asp
 145 150 155 160
 Phe Val Ala Arg Leu Gln Asp Ala Ala Gln Lys Ser Ile Thr Asp Asp

SEQUENCE LISTING.ST25

	165	170	175
Asn Ala Arg Lys Val Ile Val Glu Leu Met Ala Tyr Glu Asn Ala Asn			
180	185	190	
Pro Glu Cys Gln Ser Ala Ile Lys Pro Leu Lys Gly Lys Val Pro Ala			
195	200	205	
Gly Val Asp Val Ile Thr Glu Tyr Val Lys Ala Cys Asp Gly Ile Gly			
210	215	220	
Gly Ala Met His Lys Ala Met Leu Met Ala Gln Ala Met Arg Gly Leu			
225	230	235	240
Thr Leu Gly Gly Gln Val Arg Thr Phe Gly Lys Lys Cys Tyr Asn Cys			
245	250	255	
Gly Gln Ile Gly His Leu Lys Arg Ser Cys Pro Gly Leu Asn Lys Gln			
260	265	270	
Asn Ile Ile Asn Gln Ala Ile Thr Glu Lys Lys Lys Lys Lys Lys Lys			
275	280	285	

<210> 48
<211> 471
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)...(471)
<223> Xaa=Any amino acid

<400> 48
Glu Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu Thr Arg Cys Glu
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Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu Gly Val Lys Gln
20 25 30
Tyr Gly Ser Asn Ser Pro Tyr Ile Arg Thr Leu Leu Asp Ser Ile Ala
35 40 45
His Gly Asn Arg Leu Thr Pro Tyr Asp Trp Glu Ile Leu Ala Lys Ser
50 55 60
Ser Leu Ser Ser Ser Gln Tyr Leu Gln Phe Lys Thr Trp Trp Ile Asp
65 70 75 80
Gly Val Gln Glu Gln Val Arg Lys Asn Gln Ala Thr Lys Pro Thr Val
85 90 95
Asn Ile Asp Ala Asp Gln Leu Leu Gly Thr Gly Pro Asn Trp Ser Thr
100 105 110
Ile Asn Gln Gln Ser Val Met Gln Asn Glu Ala Ile Glu Gln Val Arg
115 120 125
Ala Ile Cys Leu Arg Ala Trp Gly Lys Ile Gln Asp Pro Gly Thr Ala
130 135 140
Phe Pro Ile Asn Ser Ile Arg Gln Gly Ser Lys Glu Pro Tyr Pro Asp
145 150 155 160
Phe Val Ala Arg Leu Gln Asp Ala Ala Gln Lys Ser Ile Thr Asp Asp
165 170 175
Asn Ala Arg Lys Val Ile Val Glu Leu Met Ala Tyr Glu Asn Ala Asn
180 185 190
Pro Glu Cys Gln Ser Ala Ile Lys Pro Leu Lys Gly Lys Val Pro Ala
195 200 205
Gly Val Asp Val Ile Thr Glu Tyr Val Lys Ala Cys Asp Gly Ile Gly
210 215 220
Gly Ala Met His Lys Ala Met Leu Met Ala Gln Ala Met Arg Gly Leu
225 230 235 240
Thr Leu Gly Gly Gln Val Arg Thr Phe Gly Lys Lys Cys Tyr Asn Cys
245 250 255
Gly Gln Ile Gly His Arg Lys Arg Ser Cys Pro Gly Leu Asn Lys Gln
260 265 270
Asn Ile Ile Asn Gln Ala Ile Thr Ala Lys Asn Lys Lys Pro Ser Gly

SEQUENCE LISTING.ST25

275	280	285
Leu Cys Pro Lys Cys Gly Lys	Ala Lys His Trp Ala Asn Gln Cys His	
290	295	300
Ser Lys Phe Asp Lys Asp Gly Gln Pro Leu Ser Gly Asn Arg Lys Arg		
305	310	315
Gly Gln Pro Gln Ala Pro Gln Gln Thr Gly Ala Phe Pro Val Lys Leu		
325	330	335
Phe Val Pro Gln Gly Phe Gln Gly Gln Pro Leu Gln Lys Ile Pro		
340	345	350
Pro Leu Gln Gly Val Ser Gln Leu Gln Gln Ser Asn Ser Cys Pro Ala		
355	360	365
Pro Gln Gln Ala Ala Pro Gln Xaa Ile Tyr Val Pro Pro Lys Trp Ser		
370	375	380
Phe Tyr Ser Leu Glu Ser Pro His Lys Arg Phe Leu Glu Gly Tyr Met		
385	390	395
Ala Arg Cys Gln Lys Gly Gly Xaa Ala Phe Glu Gly Asp Gln Val Xaa		
405	410	415
Ile Xaa Arg Glu Ser Lys Phe Ile Leu Gly Xaa Phe Thr Gln Ile Ile		
420	425	430
Lys Gly Glu Phe Ser Xaa Xaa Ser Ala Pro Leu Phe Pro Gly Val Pro		
435	440	445
Ile Gln Val Ile Glu Leu Leu Asn Tyr Cys Phe Cys Leu Met Gln Lys		
450	455	460
Lys Lys Lys Lys Lys Lys		
465	470	

<210> 49
<211> 258
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)...(258)
<223> Xaa=Any amino acid

<400> 49
Gly Ser Gln Ala Gly Val Lys Gln Tyr Gly Pro Asn Ser Pro Tyr Ile
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Arg Ile Leu Leu Asn Ser Ile Ala His Gly Asn Arg Leu Ile Ser Tyr
20 25 30
Asp Trp Glu Ile Leu Ala Ile Ser Ser Leu Ser Pro Ser Gln Tyr Leu
35 40 45
Gln Phe Lys Thr Trp Trp Ile Asp Gly Val Gln Glu Gln Val Arg Lys
50 55 60
Asn Gln Ala Thr Asn Pro Val Ala Tyr Ile Asp Glu Asp Gln Leu Leu
65 70 75 80
Gly Arg Gly Pro Asn Trp Asp Thr Ile Asn Gln Gln Ser Val Met Lys
85 90 95
Met Arg Leu Leu Asn Asn Tyr Lys Gly Tyr Leu Pro Gln Gly Leu Gly
100 105 110
Lys His Ser Gly Pro Arg Asn Leu Met Pro Phe Phe Xaa Phe Asn Gln
115 120 125
Thr Arg Leu Xaa Arg Ala Ile Ser Arg Leu Cys Gly Lys Val Ala Arg
130 135 140
Cys Ser Ser Lys Ile His Cys Arg Xaa Arg Pro Lys Ser Tyr Cys Arg
145 150 155 160
Asn Asn Gly Leu Ser Lys Arg Lys Phe Arg Val Ser Ile Ser His Lys
165 170 175
Ala Ile Lys Arg Lys Cys Phe Ser Arg Ser Xaa Cys Asn Tyr Arg Ile
180 185 190
Cys Glu Gly Leu Xaa Trp Asp Trp Arg Ser Tyr Ala Xaa Gly Asn Ala

SEQUENCE LISTING.ST25

195	200	205				
Ile	Gly	Ser Ser Asn Tyr Arg	Gly	Cys	Tyr Arg Arg	Thr Ser Xaa Asn
210		215			220	
Ile	Trp	Gly Lys Met	Leu	Xaa Leu	Trp Ser Asn Arg	Ser Ser Lys Lys
225		230			235	240
Glu	Leu	Pro Glu	Leu	Lys Leu	Pro Pro Lys Lys	Lys Lys Lys Lys
		245			250	255
Lys Lys						

<210> 50
<211> 288
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
<222> (1)...(288)
<223> Xaa=Any amino acid

<400> 50																
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Ser	Trp	Leu	Pro	Ser	Leu	Gln	Cys	Xaa	Gln	Asp	Phe	Asn	Gln	Ser	Ile	
Asn	Ile	Val	Ser	Asp	Ser	Ala	Tyr	Val	Val	Gln	Ala	Thr	Lys	Asp	Ile	
Glu	Arg	Ala	Leu	Ile	Lys	Tyr	Ile	Met	Asp	Asp	Gln	Leu	Asn	Pro	Leu	
Phe	Asn	Leu	Leu	Gln	Gln	Asn	Val	Arg	Lys	Arg	Asn	Phe	Pro	Phe	Tyr	
Ile	Thr	His	Ile	Arg	Ala	His	Thr	Asn	Leu	Pro	Gly	Pro	Leu	Thr	Lys	
Ala	Asn	Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Phe	Met	Glu	Ala	
Gln	Glu	Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ile	Gly	Leu	Lys	Asn	
Arg	Phe	Asp	Ile	Thr	Trp	Lys	Gln	Thr	Lys	Asn	Ile	Val	Gln	His	Cys	
Thr	Gln	Cys	Gln	Ile	Leu	His	Leu	Ala	Thr	Gln	Glu	Ala	Arg	Val	Asn	
145																
Pro	Arg	Gly	Leu	Cys	Pro	Asn	Val	Leu	Trp	Gln	Met	Asp	Val	Met	His	
165																
Val	Pro	Ser	Phe	Gly	Lys	Leu	Ser	Phe	Val	His	Val	Thr	Val	Asp	Thr	
180																
Tyr	Ser	His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser	Thr	Ser	
195																
His	Val	Lys	Arg	His	Leu	Leu	Ser	Cys	Phe	Pro	Val	Met	Gly	Val	Pro	
210																
Glu	Lys	Val	Lys	Thr	Asp	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys	Ala	Val	
225																
Gln	Lys	Phe	Leu	Asn	Gln	Trp	Lys	Ile	Thr	His	Thr	Ile	Gly	Ile	Leu	
245																
Tyr	Asn	Ser	Gln	Gly	Gln	Ala	Ile	Ile	Glu	Arg	Thr	Asn	Arg	Thr	Leu	
260																
Lys	Ala	Gln	Leu	Val	Lys	Gln	Lys									
275																
280																
285																

<210> 51
<211> 286
<212> PRT

SEQUENCE LISTING.ST25

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<222> (1)...(286)

<223> Xaa=Any amino acid

<400> 51

Gln Lys Asn Glu Ser Ser Lys Leu Ser Ile Thr Xaa Leu Lys Glu Gln
 1 5 10 15
 Ser Trp Leu Pro Ser Leu Gln Cys Xaa Gln Asp Phe Asn Gln Ser Ile
 20 25 30
 Asn Ile Val Ser Asp Ser Ala Tyr Val Val Gln Ala Thr Lys Asp Ile
 35 40 45
 Glu Arg Ala Leu Ile Lys Tyr Ile Met Asp Asp Gln Leu Asn Pro Leu
 50 55 60
 Phe Asn Leu Leu Gln Gln Asn Val Arg Lys Arg Asn Phe Pro Phe Tyr
 65 70 75 80
 Ile Thr His Ile Arg Ala His Thr Asn Leu Pro Gly Pro Leu Thr Lys
 85 90 95
 Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Met Glu Ala
 100 105 110
 Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu Lys Asn
 115 120 125
 Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln His Cys
 130 135 140
 Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg Val Asn
 145 150 155 160
 Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val Met His
 165 170 175
 Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val Asp Thr
 180 185 190
 Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser Thr Ser
 195 200 205
 His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly Val Pro
 210 215 220
 Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys Ala Val
 225 230 235 240
 Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly Ile Leu
 245 250 255
 Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Arg Thr Asn Arg Thr Leu
 260 265 270
 Lys Ala Gln Leu Val Lys Gln Lys Glu Lys Lys Lys Lys Lys
 275 280 285

<210> 52

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> MISC_FEATURE

<222> (1)...(287)

<223> Xaa=Any amino acid

<400> 52

Gln Lys Asn Glu Ser Ser Lys Leu Ser Ile Thr Arg Leu Lys Glu Gln
 1 5 10 15
 Ser Trp Leu Pro Ser Leu Gln Cys Xaa Gln Asp Phe Asn Gln Ser Ile
 20 25 30
 Asn Ile Val Ser Asp Ser Ala Tyr Val Val Gln Ala Thr Lys Asp Ile
 35 40 45

SEQUENCE LISTING ST25

Glu Arg Ala Leu Ile Lys Tyr Ile Met Asp Asp Gln Leu Asn Pro Leu
 50 55 60
 Phe Asn Leu Leu Gln Gln Asn Val Arg Lys Arg Asn Phe Pro Phe Tyr
 65 70 75 80
 Ile Thr His Ile Arg Ala His Thr Asn Leu Pro Gly Pro Leu Thr Lys
 85 90 95
 Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Met Glu Ala
 100 105 110
 Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu Lys Asn
 115 120 125
 Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln His Cys
 130 135 140
 Ala Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Val Arg Val Asn
 145 150 155 160
 Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val Met His
 165 170 175
 Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val Asp Thr
 180 185 190
 Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser Thr Ser
 195 200 205
 His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly Val Pro
 210 215 220
 Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys Ala Val
 225 230 235 240
 Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly Ile Leu
 245 250 255
 Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Arg Thr Asn Arg Thr Leu
 260 265 270
 Lys Ala Gln Leu Val Lys Gln Lys Lys Lys Lys Lys Lys Lys Lys
 275 280 285

<210> 53
 <211> 288
 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)...(288)
 <223> Xaa=Any amino acid

<400> 53
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 20 25 30
 Asn Ile Val Ser Asp Ser Ala Tyr Val Val Gln Ala Thr Lys Asp Ile
 35 40 45
 Glu Arg Ala Leu Ile Lys Tyr Ile Met Asp Asp Gln Leu Asn Pro Leu
 50 55 60
 Phe Asn Leu Leu Gln Gln Asn Val Arg Lys Xaa Asn Phe Pro Phe Tyr
 65 70 75 80
 Ile Thr His Ile Arg Ala His Thr Asn Leu Pro Gly Pro Leu Thr Lys
 85 90 95
 Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Met Glu Ala
 100 105 110
 Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu Lys Asn
 115 120 125
 Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln His Cys
 130 135 140
 Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg Val Asn
 145 150 155 160

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Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val Met His
 165 170 175
 Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val Asp Thr
 180 185 190
 Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser Thr Ser
 195 200 205
 His Val Lys Arg His Leu Leu Phe Cys Phe Pro Val Met Gly Val Pro
 210 215 220
 Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys Ala Val
 225 230 235 240
 Gln Glu Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly Ile Leu
 245 250 255
 Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Arg Thr Asn Arg Thr Leu
 260 265 270
 Lys Ala Gln Leu Val Lys Gln Lys Lys Lys Lys Lys Lys Lys Lys
 275 280 285

<210> 54
 <211> 234
 <212> PRT
 <213> Homo sapiens

<220>
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 <223> Xaa=Any amino acid

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 20 25 30
 Asn Ile Val Ser Asp Ser Ala Tyr Val Val Gln Ala Thr Lys Asp Ile
 35 40 45
 Glu Arg Ala Leu Ile Lys Tyr Ile Met Asp Asp Gln Leu Asn Pro Leu
 50 55 60
 Phe Asn Leu Leu Gln Gln Asn Val Arg Lys Arg Asn Phe Pro Phe Tyr
 65 70 75 80
 Ile Thr His Ile Arg Ala His Thr Asn Leu Pro Gly Pro Leu Thr Lys
 85 90 95
 Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Met Glu Ala
 100 105 110
 Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu Lys Asn
 115 120 125
 Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln His Cys
 130 135 140
 Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg Val Asn
 145 150 155 160
 Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val Met His
 165 170 175
 Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val Asp Thr
 180 185 190
 Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser Thr Ser
 195 200 205
 His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly Val Pro
 210 215 220
 Glu Lys Lys Lys Lys Lys Lys Lys Lys Lys
 225 230

<210> 55
 <211> 293

SEQUENCE LISTING.ST25

<212> PRT
 <213> Homo sapiens

<220>
 <221> MISC_FEATURE
 <222> (1)...(293)
 <223> Xaa=Any amino acid

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 Asn Ile Val Ser Asp Ser Ala Tyr Val Val Gln Ala Thr Lys Asp Ile
 35 40 45
 Glu Arg Ala Leu Ile Lys Tyr Ile Met Asp Asp Gln Leu Asn Pro Leu
 50 55 60
 Phe Asn Leu Leu Gln Gln Asn Val Arg Lys Arg Asn Phe Pro Phe Tyr
 65 70 75 80
 Ile Thr His Ile Arg Ala His Thr Asn Leu Pro Gly Pro Leu Thr Lys
 85 90 95
 Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Phe Ile Glu Ala
 100 105 110
 Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ile Gly Leu Lys Asn
 115 120 125
 Lys Phe Asp Ile Thr Trp Lys Gln Thr Lys Asn Ile Val Gln His Cys
 130 135 140
 Thr Gln Cys Gln Ile Leu His Leu Ala Thr Gln Glu Ala Arg Val Asn
 145 150 155 160
 Pro Arg Gly Leu Cys Pro Asn Val Leu Trp Gln Met Asp Val Met His
 165 170 175
 Val Pro Ser Phe Gly Lys Leu Ser Phe Val His Val Thr Val Asp Thr
 180 185 190
 Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser Thr Ser
 195 200 205
 His Val Lys Arg His Leu Leu Ser Cys Phe Pro Val Met Gly Val Pro
 210 215 220
 Glu Lys Val Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys Ala Val
 225 230 235 240
 Gln Lys Phe Leu Asn Gln Trp Lys Ile Thr His Thr Ile Gly Ile Leu
 245 250 255
 Tyr Asn Ser Gln Gly Gln Ala Ile Ile Glu Arg Thr Asn Arg Thr Leu
 260 265 270
 Lys Ala Gln Leu Val Lys Gln Lys Lys Lys Lys Lys Lys Lys Thr
 275 280 285
 Cys Arg Pro Pro Arg
 290

<210> 56
 <211> 375
 <212> PRT
 <213> Homo sapiens

<400> 56
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 Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu Gly Val Lys Gln
 20 25 30
 Tyr Gly Ser Asn Ser Pro Tyr Ile Arg Thr Leu Leu Asp Ser Ile Ala
 35 40 45
 His Gly Asn Arg Leu Thr Pro Tyr Asp Trp Glu Ile Leu Ala Lys Ser
 50 55 60

SEQUENCE LISTING.ST25

Ser Leu Ser Ser Ser Gln Tyr Leu Gln Phe Lys Thr Trp Trp Ile Asp
 65 70 75 80
 Gly Val Gln Glu Gln Val Arg Lys Asn Gln Ala Thr Lys Pro Thr Val
 85 90 95
 Asn Ile Asp Ala Asp Gln Leu Leu Gly Thr Gly Pro Asn Trp Ser Thr
 100 105 110
 Ile Asn Gln Gln Ser Val Met Gln Asn Glu Ala Ile Glu Gln Val Arg
 115 120 125
 Ala Ile Cys Leu Arg Ala Trp Gly Lys Ile Gln Asp Pro Gly Thr Ala
 130 135 140
 Phe Pro Ile Asn Ser Ile Arg Gln Gly Ser Lys Glu Pro Tyr Pro Asp
 145 150 155 160
 Phe Val Ala Arg Leu Gln Asp Ala Ala Gln Lys Ser Ile Thr Asp Asp
 165 170 175
 Asn Ala Arg Lys Val Ile Val Glu Leu Met Ala Tyr Glu Asn Ala Asn
 180 185 190
 Pro Glu Cys Gln Ser Ala Ile Lys Pro Leu Lys Gly Lys Val Pro Ala
 195 200 205
 Gly Val Asp Val Ile Thr Glu Tyr Val Lys Ala Cys Asp Gly Ile Gly
 210 215 220
 Gly Ala Met His Lys Ala Met Leu Met Ala Gln Ala Met Arg Gly Leu
 225 230 235 240
 Thr Leu Gly Gly Gln Val Arg Thr Phe Gly Lys Lys Cys Tyr Asn Cys
 245 250 255
 Gly Gln Ile Gly His Arg Lys Arg Ser Cys Pro Gly Leu Asn Lys Gln
 260 265 270
 Asn Ile Ile Asn Gln Ala Ile Thr Ala Lys Asn Lys Pro Ser Gly
 275 280 285
 Leu Cys Pro Lys Cys Gly Lys Ala Lys His Trp Ala Asn Gln Cys His
 290 295 300
 Ser Lys Phe Asp Lys Asp Gly Gln Pro Leu Ser Gly Asn Arg Lys Arg
 305 310 315 320
 Gly Gln Pro Gln Ala Pro Gln Gln Thr Gly Ala Phe Pro Val Lys Leu
 325 330 335
 Phe Val Pro Gln Gly Phe Gln Gly Gln Gln Pro Leu Gln Lys Ile Pro
 340 345 350
 Pro Leu Gln Gly Val Ser Gln Leu Gln Gln Ser Asn Ser Cys Pro Ala
 355 360 365
 Pro Gln Gln Ala Ala Pro Gln
 370 375

<210> 57

<211> 288

<212> PRT

<213> Homo sapiens

<400> 57

Glu Glu Thr Gln Val Gly Ala Pro Ala Arg Ala Glu Thr Arg Cys Glu
 1 5 10 15
 Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu Gly Val Lys Gln
 20 25 30
 Tyr Gly Ser Asn Ser Pro Tyr Ile Arg Thr Val Leu Asp Ser Ile Ala
 35 40 45
 His Gly Asn Arg Leu Thr Pro Tyr Asp Trp Glu Ile Leu Ala Lys Ser
 50 55 60
 Ser Leu Ser Ser Ser Gln Tyr Leu Gln Phe Lys Thr Trp Trp Ile Asp
 65 70 75 80
 Gly Val Gln Glu Gln Val Arg Lys Asn Gln Ala Thr Lys Pro Thr Val
 85 90 95
 Asn Ile Asp Ala Asp Gln Leu Leu Gly Thr Gly Pro Asn Trp Ser Thr
 100 105 110
 Ile Asn Gln Gln Ser Val Met Gln Asn Glu Ala Ile Glu Gln Val Arg

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115	120	125
Ala Ile Cys Leu Arg Ala Trp	Gly Lys Ile Gln Asp Pro	Gly Thr Ala
130	135	140
Phe Pro Ile Asn Ser Ile Arg Gln	Gly Ser Lys Glu Pro	Tyr Pro Asp
145	150	155
Phe Val Ala Arg Leu Gln Asp Ala	Ala Gln Lys Ser Ile	Thr Asp Asp
165	170	175
Asn Ala Arg Lys Val Ile Val	Glu Leu Met Ala	Tyr Glu Asn Ala Asn
180	185	190
Pro Glu Cys Gln Ser Ala Ile	Lys Pro Leu Lys Gly	Lys Val Pro Ala
195	200	205
Gly Val Asp Val Ile Thr Glu	Tyr Val Lys Ala	Cys Asp Gly Ile Gly
210	215	220
Gly Ala Met His Lys Ala Met	Leu Met Ala Gln	Ala Met Arg Gly Leu
225	230	235
Thr Leu Gly Gln Val Arg Thr	Phe Gly Lys	Cys Tyr Asn Cys
245	250	255
Gly Gln Ile Gly His Leu Lys Arg	Ser Cys Pro Gly	Leu Asn Lys Gln
260	265	270
Asn Ile Ile Asn Gln Ala Ile	Thr Glu Lys	Lys Lys Lys Lys Lys
275	280	285

<210> 58
 <211> 268
 <212> PRT
 <213> Homo sapiens

<400> 58			
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20	25	30	
Asp Asp Gln Leu Asn Pro Leu Phe	Asn Leu Leu Gln	Gln Asn Val Arg	
35	40	45	
Lys Arg Asn Phe Pro Phe	Tyr Ile Thr His	Ile Arg Ala His Thr Asn	
50	55	60	
Leu Pro Gly Pro Leu Thr Lys Ala Asn	Glu Gln Ala	Asp Leu Leu Val	
65	70	75	80
Ser Ser Ala Phe Met Glu Ala Gln	Glu Leu His	Ala Leu Thr His Val	
85	90	95	
Asn Ala Ile Gly Leu Lys Asn Lys	Phe Asp Ile Thr	Trp Lys Gln Thr	
100	105	110	
Lys Asn Ile Val Gln His Cys	Thr Gln Cys Gln	Ile Leu His Leu Ala	
115	120	125	
Thr Gln Glu Ala Arg Val Asn	Pro Arg Gly	Leu Cys Pro Asn Val Leu	
130	135	140	
Trp Gln Met Asp Val Met His	Val Pro Ser Phe	Gly Lys Leu Ser Phe	
145	150	155	160
Val His Val Thr Val Asp Thr	Tyr Ser His Phe	Ile Trp Ala Thr Cys	
165	170	175	
Gln Thr Gly Glu Ser Thr Ser	His Val Lys Arg	His Leu Leu Ser Cys	
180	185	190	
Phe Pro Val Met Gly Val Pro	Glu Lys Val Lys	Thr Asp Asn Gly Pro	
195	200	205	
Gly Tyr Cys Ser Lys Ala Val	Gln Lys Phe	Leu Asn Gln Trp Lys Ile	
210	215	220	
Thr His Thr Ile Gly Ile	Leu Tyr Asn Ser	Gln Gly Gln Ala Ile Ile	
225	230	235	240
Glu Arg Thr Asn Arg Thr	Leu Lys Ala Gln	Leu Val Lys Gln Lys Lys	
245	250	255	
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260	265		

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<210> 59
<211> 15
<212> DNA
<213> Homo sapiens

<400> 59
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15

<210> 60
<211> 19
<212> DNA
<213> Homo sapiens

<400> 60
cattagaaaa aggacattg

19

<210> 61
<211> 17
<212> DNA
<213> Homo sapiens

<400> 61
ttggaattct gtttgta

17

<210> 62
<211> 16
<212> DNA
<213> Homo sapiens

<400> 62
taactgagcc attaat

16

<210> 63
<211> 21
<212> DNA
<213> Homo sapiens

<400> 63
agccatggtc cccttaatt a

21

<210> 64
<211> 17
<212> DNA
<213> Homo sapiens

<400> 64
tttaccaca ccagcct

17

<210> 65
<211> 15
<212> DNA
<213> Homo sapiens

<400> 65
ttgtcagctc aagct

15

SEQUENCE LISTING.ST25

<210> 66
<211> 15
<212> DNA
<213> Homo sapiens

<400> 66
tacatcggttc actat

15

<210> 67
<211> 15
<212> DNA
<213> Homo sapiens

<400> 67
ttaaaaggcat taaat

15

<210> 68
<211> 17
<212> DNA
<213> Homo sapiens

<400> 68
agaagtccca attgagg

17

<210> 69
<211> 15
<212> DNA
<213> Homo sapiens

<400> 69
ggtcttgccg atttt

15

<210> 70
<211> 15
<212> DNA
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<400> 70
acaatcgta ccaca

15

<210> 71
<211> 15
<212> DNA
<213> Homo sapiens

<400> 71
aaaagaatga gtcat

15

<210> 72
<211> 15
<212> DNA
<213> Homo sapiens

<400> 72
cagtatcact tgact

15

SEQUENCE LISTING.ST25

<210> 73
<211> 23
<212> DNA
<213> Homo sapiens

<400> 73
ttttaatcag tctattaaca ttg

23

<210> 74
<211> 16
<212> DNA
<213> Homo sapiens

<400> 74
aaaggatatt gagaga

16

<210> 75
<211> 16
<212> DNA
<213> Homo sapiens

<400> 75
cctaatcaaa tacatt

16

<210> 76
<211> 15
<212> DNA
<213> Homo sapiens

<400> 76
cgctgttaa tttgt

15

<210> 77
<211> 16
<212> DNA
<213> Homo sapiens

<400> 77
tgcatccatg gaagca

16

<210> 78
<211> 15
<212> DNA
<213> Homo sapiens

<400> 78
actcaggagg caaga

15

<210> 79
<211> 16
<212> DNA
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<400> 79
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16

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<210> 80
<211> 16
<212> DNA
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<400> 80
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16

<210> 81
<211> 15
<212> DNA
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<400> 81
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15

<210> 82
<211> 16
<212> DNA
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<400> 82
aaagctcaat tggtta

16

<210> 83
<211> 25
<212> DNA
<213> Homo sapiens

<400> 83
taggaggaca agttagaaca tttgg

25

<210> 84
<211> 24
<212> DNA
<213> Homo sapiens

<400> 84
aaaatgttat aattgtggtc aaat

24

<210> 85
<211> 1998
<212> DNA
<213> Homo sapiens

<400> 85
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ataatagaac aattttgccc atgggttcca gaacaaggaa cttagatct aaaagattgg 180
aaaagaattg gtaaggact aaaacaagca ggttaggaagg gtaatatcat tccacttaca 240
gtatggaatg attgggcccatt tattaaagca gctttagaac catttcaaagc agaagaagat 300
agcggttcag tttctgatgc cccttggaaagc tgtataatag attgtatga aaacacaagg 360
aaaaaatccc agaaagaaac ggaaggttta cattgcgaat atgttagcaga gccggtaatg 420
gctcgttcaa cgcaaaaatgt tgactataat caattacagg aggtgatata tcctgaaacg 480
ttaaaattag aaggaaaagg tccagaattt gtggggccat cagatctaa accacgaggc 540
acaagtccctc ttccagcagg tcaggtgcct gtaacattac aacctcaaaa gcaggttaaa 600

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gaaaataaga	cccaaccgcc	agttagcctat	caatactggc	ctccggctga	acttcagttat	660
cggccacccc	cagaaagtca	gtatggatat	ccaggaatgc	ccccagcacc	acagggcagg	720
gcgcctatcc	ctcagccgcc	cactaggaga	cttaatccta	cggcaccacc	tagtagacag	780
ggttagtaat	tacatgaaat	tattgataaa	tcaagaaaagg	aaggagatac	tgaggcatgg	840
caatccccag	taacgttaga	accgtatgcca	cctggagaag	gagccccaga	gggagagcct	900
cccacagtgg	aggccagata	caagtcttt	tcgataaaaa	agctaaaaga	tatgaaaagag	960
ggagtaaaac	agtatggacc	caactccct	tatatgagga	cattattaga	ttccatttgct	1020
catggacata	gactcattcc	ttatgattgg	gagattctgg	caaaatcgtc	tctctcaccc	1080
tctcaatttt	tacaatttaa	gacttgggg	attgtatggg	tacaagaaca	ggtccgaaga	1140
aatagggctg	ccaatcctcc	agttaacata	gatgcagatc	aactattagg	aataggtcaa	1200
aattggagta	ctattagtc	acaagcatta	atgcaaaaatg	agggcattga	gcaagttaga	1260
gctatctgcc	ttagagccctg	ggaaaaaaatc	caagaccagg	gaagtacctg	cccctcattt	1320
aatacagtaa	gacaagggttc	aaaagagccc	tatcctgatt	ttgtggcaag	gctccaagat	1380
gttgc当地	agtcaattgc	tgatgaaaaa	gccccgttaagg	tcatagtgga	gttgc当地	1440
tatgaaaacg	ccaatcctga	gtgtcaatca	gccattaagc	cattaaaagg	aaaggttcct	1500
gcaggatcag	atgtatctc	agaatatgt	aaagcctgtg	atgaaatcg	aggagctatg	1560
cataaaagcta	tgcttatggc	tcaagcaata	acaggagg	ttttaggagg	acaagttaga	1620
acatttggaa	gaaaatgtt	taattgtgt	caaattgtc	actaaaaaaa	gaattgccc	1680
gtcttaaata	aacagaat	aactattca	gcaactacaa	cagtagaga	gccacctgac	1740
ttatgtccaa	gatgtaaaaa	aggaaaacat	tgggctagtc	aatgtcg	taaatttgat	1800
aaaaatgggc	aaccattgtc	gggaaacgag	caaaggggcc	agctcaggc	cccacaacaa	1860
actggggcat	tcccaattca	gccatttgtt	cctcagggtt	ttcagggaca	acaaccccca	1920
ctgtcccaag	tgtttcaggg	aataagccag	ttaccacaat	acaacaattt	tcccccgc	1980
caagcggcag	tgcagcag					1998

<210> 86
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 86

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cccaagtgtt	tcaggaaata	agccagttac	cacaatacaa	caattgtccc	ccgcccacaag	180
cggca	gcagtagatt	tatgtactat	acaagcagtc	tctctgttc	caggggagcc	240
cccacaaaaa	accccccacag	gggtatatgg	accctgcct	aaggggactg	taggactaat	300
cttggacacg	tcaagtctaa	atctaaaagg	agttcaattt	catactagtg	tggttgattc	360
agactataaa	ggcgaaattc	aattggttat	tagctctca	attccttgg	gtgccagtcc	420
aagagacagg	attgtcaat	tattactcct	gccatacatt	aagggtggaa	atagtgaaat	480
aaaaagaata	ggagggctt	gaagcactga	tccaacagga	aaggctgcat	attgggcaag	540
tcaggtctca	gagaacagac	ctgtgtgtaa	ggcatttatt	caaggaaaac	agtttgaagg	600
gttggtagac	actggggcag	atgtctctat	cattgttta	aattcgtggc	caaaaaattt	660
gcctaaacaa	aaggctgtt	caggattgt	cggcataggc	acagcctcag	aagtgtatca	720
aagtacggag	attttacatt	gcttagggcc	agataatcaa	gaaagtactg	ttcagccaa	780
gattacttca	attcctctta	atctgtgggg	tcgagat	ttacaacaat	ggggtgccg	840
aatcaccatg	cccgctccat	catatagccc	cacgagtc	aaaatcatga	ccaagatggg	900
atataatcca	gaaaaggag	taggaaaaaa	tgaagatggc	attaaaattt	cagttgaggc	960
taaaataat	caagaaagag	aaggaatagg	gaatccttgc			1000

<210> 87
<211> 2896
<212> DNA
<213> Homo sapiens

<400> 87

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aaaaccatg	tgggtaaatc	agtggccgt	acaaaaacaa	aaactggagg	ctttacattt	180
attagcaat	gaacagttag	aaaagggtca	tattgagct	tcgttctac	cttggaaattc	240
tcctgtgtt	gtaattcaga	agaaatcagg	caaatggcg	atgttaactg	acttaagggc	300
tgtaaaacgc	gtaattcaac	ccatggggcc	tctccaaacc	gggttgcct	ctccggccat	360

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gatccaaaaa	gattggccctt	taattataat	tgatctaaag	gattgcttt	ttaccatccc	420
tctggcagag	caggattgcg	aaaaatttgc	ctttactata	ccagccataa	ataataaaga	480
accagccacc	aggtttcagt	ggaaagtgtt	acctcaggg	atgcttaata	gtccaactat	540
ttgtcagact	ttttaggtc	gagctctca	accagttaga	gaaaagttt	cagactgtta	600
tattattcat	ttttaggtat	atattttatg	tgctgcagaa	acgaaagata	aattaattga	660
ctgttataca	tttctgcaag	cagaggtgc	caatgctgg	ctggcaatag	catctgataa	720
gatccaaacc	tctactcctt	ttcattattt	aggatgcag	atagaaaata	gaaaattaa	780
gccacaaaaa	atagaaaataa	gaaaagacac	ataaaaaaca	ctaaatgatt	ttcaaaaatt	840
actaggagat	attaattgga	ttcgccaaac	tctaggcatt	cctactttag	ccatgtcaaa	900
tttgcattct	atcttaagag	gagactcaga	cttaaatagt	aaaagaatgt	taaccccaga	960
ggcaacaaaaa	gaaatttaat	tagtggaga	aaaaatttcag	tcagcgaaa	taaatagaat	1020
agatccctta	gccccactcc	aactttgat	tttgccact	gcacatttc	caacaggcat	1080
cattattcaa	aatactgatc	ttgtggagtg	gtcattcctt	cctcacagta	cagttaaagac	1140
ttttacattt	tacttggatc	aaatagctac	attaatcggt	cagacaagat	tacgaataat	1200
aaaattatgt	gggaatgacc	cagacaaaat	agttgtcctt	ttaaccaagg	aacaagttag	1260
acaaggcttt	atcaattctg	gtgcattggaa	gattggcttt	gctaattttg	tggaaattat	1320
tgataatcat	tacccaaaaa	caaagatctt	ccagttctta	aaattgacta	cttggattct	1380
acctaaaatt	accagacgtg	aacctttaga	aaatgctct	acagtattta	ctgatggttc	1440
cagcaatgga	aaagcagctt	acacaggacc	gaaagaacga	gtaatcaaa	ctccatatac	1500
atcggtctaa	agagcagagt	ttgttgcagt	cattacagtg	ttacaagatt	ttgaccaacc	1560
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<212> DNA

<213> Homo sapiens

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<212> DNA

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<212> DNA

<213> Homo sapiens

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<211> 666

<212> PRT

<213> Homo sapiens

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Lys	Pro	Arg	Gly	Thr	Ser	Pro	Leu	Pro	Ala	Gly	Gln	Val	Pro	Val	Thr
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SEQUENCE LISTING.ST25

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 Gly Lys Val Pro Ala Gly Ser Asp Val Ile Ser Glu Tyr Val Lys Ala
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<212> PRT
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50 55 60
Asn Lys Glu Pro Ala Thr Arg Phe Gln Trp Lys Val Leu Pro Gln Gly
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Gln Pro Val Arg Glu Lys Phe Ser Asp Cys Tyr Ile Ile His Cys Ile
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 565 570 575
 Gly Arg Leu Ser Tyr Val His Val Thr Val Asp Thr Tyr Ser His Phe
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 Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser Thr Ser His Val Lys Lys
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 His Leu Leu Ser Cys Phe Ala Val Met Gly Val Pro Glu Lys Ile Lys

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 50 55 60
 Glu Glu Leu Lys Gln Ala Gly Arg Lys Gly Asn Ile Ile Pro Leu Thr
 65 70 75 80
 Val Trp Asn Asp Trp Ala Ile Ile Lys Ala Ala Leu Glu Pro Phe Gln
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 Thr Lys Glu Asp Ser Val Ser Val Ser Asp Ala Pro Gly Ser Cys Val
 100 105 110
 Ile Asp Cys Asn Glu Lys Thr Gly Arg Lys Ser Gln Lys Glu Thr Glu
 115 120 125
 Ser Leu His Cys Glu Tyr Val Thr Glu Pro Val Met Ala Gln Ser Thr
 130 135 140
 Gln Asn Val Asp Tyr Asn Gln Leu Gln Gly Val Ile Tyr Pro Glu Thr
 145 150 155 160
 Leu Lys Leu Glu Gly Lys Gly Pro Glu Leu Val Gly Pro Ser Glu Ser
 165 170 175
 Lys Pro Arg Gly Pro Ser Pro Leu Pro Ala Gly Gln Val Pro Val Thr
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 195 200 205
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 Glu Ser Gln Tyr Gly Tyr Pro Gly Met Pro Pro Ala Leu Gln Gly Arg
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 Thr Arg Cys Glu Pro Phe Thr Met Lys Met Leu Lys Asp Ile Lys Glu
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acagaaagtc	tagacaacaa	taagcataaa	aaattacagt	cttcttaccc	ttgggaatgg	600
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catccagaat	tatggaggt	ttggcctgac	accacatag	aatttggct	ggaaatcaaa	720
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tgattataaa	tctcatat	atccctgtgt	gcctgtttt	tctgttgtt	gtctgcaggt	1620
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<210> 102
<211> 852
<212> DNA
<213> Homo sapiens

<400> 102

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ataatagaac	attttgccc	atggtttcca	gaacaaggaa	cttcagatct	aaaagattgg	180
aaaagaattt	gtaaggaact	aaaacaagca	ggtaggaagg	gtaatatcat	tccacttaca	240
gtatgaaatg	attggccat	tattaaagca	gctttagaac	catttcaaac	agaagaagat	300
agcatattcag	tttctgtatgc	ccctggaagc	tgtttatag	attgtatga	aaacacaagg	360
aaaaaaatccc	agaaagaaaac	cgaagtttta	cattgcgaat	atgttagcaga	gccggtaatg	420
gctcagtcaa	cgcacaaatgt	tgactataat	caattacagg	aggtgtatata	tcctgaaacg	480
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acaagtcttc	ttccagcagg	tcaggtgtct	gtaagattac	aacctcaaaa	gcaggttaaa	600
gaaaataaga	cccaaccgca	agtgcctat	caatactgcc	gctggctgaa	cttcagatc	660
ggccacccccc	agaaaagtca	tatggatatc	caggaatgcc	cccagcacca	cagggcagg	720
cgcctatcca	tcagccgccc	actaggagac	ttaatcctat	ggcaccacat	agttagacagg	780

SEQUENCE LISTING.ST25

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<210> 103
 <211> 283
 <212> PRT
 <213> Homo sapiens

<400> 103
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 35 40 45
 Phe Pro Glu Gln Gly Thr Ser Asp Leu Lys Asp Trp Lys Arg Ile Gly
 50 55 60
 Lys Glu Leu Lys Gln Ala Gly Arg Lys Gly Asn Ile Ile Pro Leu Thr
 65 70 75 80
 Val Trp Asn Asp Trp Ala Ile Ile Lys Ala Ala Leu Glu Pro Phe Gln
 85 90 95
 Thr Glu Glu Asp Ser Ile Ser Val Ser Asp Ala Pro Gly Ser Cys Leu
 100 105 110
 Ile Asp Cys Asn Glu Asn Thr Arg Lys Lys Ser Gln Lys Glu Thr Glu
 115 120 125
 Ser Leu His Cys Glu Tyr Val Ala Glu Pro Val Met Ala Gln Ser Thr
 130 135 140
 Gln Asn Val Asp Tyr Asn Gln Leu Gln Glu Val Ile Tyr Pro Glu Thr
 145 150 155 160
 Leu Lys Leu Glu Gly Lys Gly Pro Glu Leu Met Gly Pro Ser Glu Ser
 165 170 175
 Lys Pro Arg Gly Thr Ser Pro Leu Pro Ala Gly Gln Val Leu Val Arg
 180 185 190
 Leu Gln Pro Gln Lys Gln Val Lys Glu Asn Lys Thr Gln Pro Gln Val
 195 200 205
 Ala Tyr Gln Tyr Cys Arg Trp Leu Asn Phe Ser Ile Gly His Pro Gln
 210 215 220
 Lys Val Ser Met Asp Ile Gln Glu Cys Pro Gln His His Arg Ala Gly
 225 230 235 240
 Arg His Thr Ile Ser Arg Pro Leu Gly Asp Leu Ile Leu Trp His His
 245 250 255
 Leu Val Asp Arg Val Val Asn Tyr Met Lys Leu Leu Ile Asn Gln Glu
 260 265 270
 Arg Lys Glu Ile Leu Arg His Gly Asn Ser Gln
 275 280

<210> 104
 <211> 434
 <212> PRT
 <213> Homo sapiens

<400> 104
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 35 40 45
 Gln Phe Pro Val Thr Leu Glu Pro Met Pro Pro Gly Glu Gly Ala Gln
 50 55 60
 Glu Gly Glu Pro Pro Thr Val Glu Ala Arg Tyr Lys Ser Phe Ser Ile

SEQUENCE LISTING .ST25

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Ser Pro Tyr Met Arg Thr Leu Leu Asp Ser Ile Ala Tyr Gly His Arg			
100	105	110	
Leu Ile Pro Tyr Asp Trp Glu Ile Leu Ala Lys Ser Ser Leu Ser Pro			
115	120	125	
Ser Gln Phe Leu Gln Phe Lys Thr Trp Trp Ile Asp Gly Val Gln Glu			
130	135	140	
Gln Val Arg Arg Asn Arg Ala Ala Asn Pro Pro Val Asn Ile Asp Ala			
145	150	155	160
Asp Gln Leu Leu Gly Ile Gly Gln Asn Trp Ser Thr Ile Ser Gln Gln			
165	170	175	
Ala Leu Met Gln Asn Glu Ala Ile Glu Gln Val Arg Ala Ile Cys Leu			
180	185	190	
Arg Ala Trp Glu Lys Ile Gln Asp Pro Gly Ser Thr Cys Pro Ser Phe			
195	200	205	
Asn Thr Val Arg Gln Gly Ser Lys Glu Pro Tyr Pro Asp Phe Val Ala			
210	215	220	
Arg Leu Gln Asp Val Ala Gln Lys Ser Ile Ala Asp Glu Lys Ala Gly			
225	230	235	240
Lys Val Ile Val Glu Leu Met Ala Tyr Glu Asn Ala Asn Pro Glu Cys			
245	250	255	
Gln Ser Ala Ile Lys Pro Leu Lys Gly Lys Val Pro Ala Gly Ser Asp			
260	265	270	
Val Ile Ser Glu Tyr Val Lys Ala Cys Asp Gly Ile Gly Gly Ala Met			
275	280	285	
His Lys Ala Met Leu Met Ala Gln Ala Ile Thr Gly Val Val Leu Gly			
290	295	300	
Gly Gln Val Arg Thr Phe Gly Gly Lys Cys Tyr Asn Cys Gly Gln Ile			
305	310	315	320
Gly His Leu Lys Lys Asn Cys Pro Val Leu Asn Lys Gln Asn Ile Thr			
325	330	335	
Ile Gln Ala Thr Thr Gly Arg Glu Pro Pro Asp Leu Cys Pro Arg			
340	345	350	
Cys Lys Lys Gly Lys His Trp Ala Ser Gln Cys Arg Ser Lys Phe Asp			
355	360	365	
Lys Asn Gly Gln Pro Leu Ser Gly Asn Glu Gln Arg Gly Gln Pro Gln			
370	375	380	
Ala Pro Gln Gln Thr Gly Ala Phe Pro Ile Gln Pro Phe Val Pro Gln			
385	390	395	400
Gly Phe Gln Gly Gln Gln Pro Pro Leu Ser Gln Val Phe Gln Gly Ile			
405	410	415	
Ser Gln Leu Pro Gln Tyr Asn Asn Cys Pro Ser Pro Gln Ala Ala Val			
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Gln Gln			

<210> 105
<211> 279
<212> DNA
<213> Homo sapiens

<400> 105
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accatgccccg ctccattata tagccccacg agtcaaaaaa tcatgaccaa gatggatat 180
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ataaatcaag aaagagaagg aatagggtat ccttttttag 279

<210> 106

SEQUENCE LISTING ST25

<211> 92
<212> PRT
<213> *Homo sapiens*

<400> 106

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				20				25					30		
Leu	Gln	Gln	Trp	Gly	Ala	Glu	Ile	Thr	Met	Pro	Ala	Pro	Leu	Tyr	Ser
					35			40				45			
Pro	Thr	Ser	Gln	Lys	Ile	Met	Thr	Lys	Met	Gly	Tyr	Ile	Pro	Gly	Lys
					50			55			60				
Gly	Leu	Gly	Lys	Asn	Glu	Asp	Gly	Ile	Lys	Val	Pro	Val	Glu	Ala	Lys
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Ile	Asn	Gln	Glu	Arg	Glu	Gly	Ile	Gly	Tyr	Pro	Phe				
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<210> 107

<211> 4086

<212> DNA

<213> Homo sapiens

<400> 107

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aaatttgctt ttactatacc agccataaat aataaaagaac cagccaccag gtttcagttgg 180
aaagtgttac ctcaagggaat gcttaatagt ccaactattt gtcagacttt tgttaggtcga 240
gctcttcaac cagttagagaa aaagtttca gactgttata ttattcatta tattgtatgat 300
attttatgtg ctgcagaaaac gaaagataaa ttaatttgact gttatacatt tctgcaagaca 360
gagggttgcct atgtctggact ggcaatagca tccgataaga tccaaacctc tactccttt 420
cattatttag ggatgcagat agaaaataga aaaattaagc cacaaaaaaat agaaataaga 480
aaagacacat taaaacact aaatgattt caaaaattac taggagatat taatttgatt 540
cgccaactc taggcattcc tactatgcc atgtcaattt tgttctctat ctaagagga 600
gactcagact taaatagtca aagaatatta accccagagg caacaaaaga attaaatata 660
gttggagaaaa aaattcagtc acgccaata aatagaatag atcccttagc cccactccaa 720
cttttgattt ttgcccactgc tcacagtaca gtaagactt ttacattgtt cttggatcaa 780
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SEQUENCE LISTING.ST25

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cgttatcctc	ctatggct	agggagagca	ccaggatgtt	taatgcctgc	agtccaaaat	2520
tggtttggtag	aagtacctac	tgtcagtccc	atcagtagat	tcacttata	catggtaagc	2580
gggatgtcac	tcaggccacg	ggtaaattat	ttacaagact	tttcttatca	aagatcatta	2640
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gaagtttag	tttggaa	atgtgtggcc	aatagtgcgg	tgatattata	aaacaatgaa	2760
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gttttaata	gatccaaag	attcatttt	actttaattt	cagtgattat	gggattaatt	3420
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<210> 108
<211> 1361
<212> PRT
<213> Homo sapiens

<220>
<221> MISC_FEATURE
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<223> Xaa=Any amino acid

<400> 108
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35 40 45
Ile Asn Asn Lys Glu Pro Ala Thr Arg Phe Gln Trp Lys Val Leu Pro
50 55 60
Gln Gly Met Leu Asn Ser Pro Thr Ile Cys Gln Thr Phe Val Gly Arg
65 70 75 80
Ala Leu Gln Pro Val Arg Glu Lys Phe Ser Asp Cys Tyr Ile Ile His
85 90 95
Tyr Ile Asp Asp Ile Leu Cys Ala Ala Glu Thr Lys Asp Lys Leu Ile
100 105 110
Asp Cys Tyr Thr Phe Leu Gln Ala Glu Val Ala Asn Ala Gly Leu Ala
115 120 125
Ile Ala Ser Asp Lys Ile Gln Thr Ser Thr Pro Phe His Tyr Leu Gly
130 135 140
Met Gln Ile Glu Asn Arg Lys Ile Lys Pro Gln Lys Ile Glu Ile Arg

SEQUENCE LISTING.ST25

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Ile	Asn	Trp	Ile	Arg	Pro	Thr	Leu	Gly	Ile	Pro	Thr	Tyr	Ala	Met	Ser
				180		185									190
Asn	Leu	Phe	Ser	Ile	Leu	Arg	Gly	Asp	Ser	Asp	Leu	Asn	Ser	Gln	Arg
				195		200									205
Ile	Leu	Thr	Pro	Glu	Ala	Thr	Lys	Glu	Ile	Lys	Leu	Val	Glu	Glu	Lys
				210		215									220
Ile	Gln	Ser	Ala	Gln	Ile	Asn	Arg	Ile	Asp	Pro	Leu	Ala	Pro	Leu	Gln
				225		230									240
Leu	Leu	Ile	Phe	Ala	Thr	Ala	His	Ser	Pro	Thr	Gly	Ile	Ile	Gln	
				245		250									255
Asn	Thr	Asp	Leu	Val	Glu	Trp	Ser	Phe	Leu	Pro	His	Ser	Thr	Val	Lys
				260		265									270
Thr	Phe	Thr	Leu	Tyr	Leu	Asp	Gln	Ile	Ala	Thr	Leu	Ile	Gly	Gln	Thr
				275		280									285
Arg	Leu	Arg	Ile	Thr	Lys	Leu	Cys	Gly	Asn	Asp	Pro	Asp	Lys	Ile	Val
				290		295									300
Val	Pro	Leu	Thr	Lys	Glu	Gln	Val	Arg	Gln	Ala	Phe	Ile	Asn	Ser	Gly
				305		310									320
Ala	Trp	Gln	Ile	Gly	Leu	Ala	Asn	Phe	Val	Gly	Leu	Ile	Asp	Asn	His
				325		330									335
Tyr	Pro	Lys	Thr	Lys	Ile	Phe	Gln	Phe	Leu	Lys	Leu	Thr	Thr	Trp	Ile
				340		345									350
Leu	Pro	Lys	Ile	Thr	Arg	Arg	Glu	Pro	Leu	Glu	Asn	Ala	Leu	Thr	Val
				355		360									365
Phe	Thr	Asp	Gly	Ser	Ser	Asn	Gly	Lys	Ala	Ala	Tyr	Thr	Gly	Pro	Lys
				370		375									380
Glu	Arg	Val	Ile	Lys	Thr	Pro	Tyr	Gln	Ser	Ala	Gln	Arg	Asp	Glu	Leu
				385		390									400
Val	Ala	Val	Ile	Thr	Val	Leu	Gln	Asp	Phe	Asp	Gln	Pro	Ile	Asn	Ile
				405		410									415
Ile	Ser	Asp	Ser	Ala	Tyr	Val	Val	Gln	Ala	Thr	Arg	Asp	Val	Glu	Thr
				420		425									430
Ala	Leu	Ile	Lys	Tyr	Ser	Met	Asp	Asp	Gln	Leu	Asn	Gln	Leu	Phe	Asn
				435		440									445
Leu	Leu	Gln	Gln	Thr	Val	Arg	Lys	Arg	Asn	Phe	Pro	Phe	Tyr	Ile	Thr
				450		455									460
Tyr	Ile	Arg	Ala	His	Thr	Asn	Leu	Pro	Gly	Pro	Leu	Thr	Lys	Ala	Asn
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Glu	Gln	Ala	Asp	Leu	Leu	Val	Ser	Ser	Ala	Leu	Ile	Lys	Ala	Gln	Glu
				485		490									495
Leu	His	Ala	Leu	Thr	His	Val	Asn	Ala	Ala	Gly	Leu	Lys	Asn	Phe	
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Asp	Val	Thr	Trp	Lys	Gln	Ala	Lys	Asp	Ile	Val	Gln	His	Cys	Thr	Gln
				515		520									525
Cys	Gln	Val	Leu	His	Leu	Pro	Thr	Gln	Glu	Ala	Gly	Val	Asn	Pro	Arg
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Gly	Leu	Cys	Pro	Asn	Ala	Leu	Trp	Gln	Met	Asp	Val	Thr	His	Val	Pro
				545		550									560
Ser	Phe	Gly	Arg	Leu	Ser	Tyr	Val	His	Val	Thr	Val	Asp	Thr	Tyr	Ser
				565		570									575
His	Phe	Ile	Trp	Ala	Thr	Cys	Gln	Thr	Gly	Glu	Ser	Thr	Ser	His	Val
				580		585									590
Lys	Lys	His	Leu	Leu	Ser	Cys	Phe	Ala	Val	Met	Gly	Val	Pro	Glu	Lys
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Ile	Lys	Thr	Asp	Asn	Gly	Pro	Gly	Tyr	Cys	Ser	Lys	Ala	Phe	Gln	Lys
				610		615									620
Phe	Leu	Ser	Gln	Trp	Lys	Ile	Ser	His	Thr	Thr	Gly	Ile	Pro	Tyr	Asn
				625		630									640
Ser	Gln	Gly	Gln	Ala	Ile	Val	Glu	Arg	Thr	Asn	Arg	Thr	Leu	Lys	Thr
				645		650									655

SEQUENCE LISTING ST25

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 660 665 670
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 Ile Tyr Arg Asn Gln Thr Thr Ser Ala Glu Gln His Leu Thr Gly
 690 695 700
 Lys Lys Asn Ser Pro His Glu Gly Lys Leu Ile Trp Trp Lys Asp Asn
 705 710 715 720
 Lys Asn Lys Thr Trp Glu Ile Gly Lys Val Ile Thr Trp Gly Arg Gly
 725 730 735
 Phe Ala Cys Val Ser Pro Gly Glu Asn Gln Leu Pro Val Trp Leu Pro
 740 745 750
 Thr Arg His Leu Lys Phe Tyr Asn Glu Pro Ile Gly Asp Ala Lys Lys
 755 760 765
 Arg Ala Ser Thr Glu Met Val Thr Pro Val Thr Trp Met Asp Asn Pro
 770 775 780
 Ile Glu Val Tyr Val Asn Asp Ser Ile Trp Val Pro Gly Pro Ile Asp
 785 790 795 800
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 805 810 815
 Ser Ile Gly Tyr Arg Tyr Pro Pro Ile Cys Leu Gly Arg Ala Pro Gly
 820 825 830
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 835 840 845
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 850 855 860
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 865 870 875 880
 Lys Phe Arg Pro Lys Gly Lys Pro Cys Pro Lys Glu Ile Pro Lys Glu
 885 890 895
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 900 905 910
 Ala Val Ile Leu Xaa Asn Asn Glu Phe Gly Thr Ile Ile Asp Trp Ala
 915 920 925
 Pro Arg Gly Gln Phe Tyr His Asn Cys Ser Gly Gln Thr Gln Ser Cys
 930 935 940
 Pro Ser Ala Gln Val Ser Pro Ala Val Asp Ser Asp Leu Thr Glu Ser
 945 950 955 960
 Leu Asp Lys His Lys His Lys Leu Gln Ser Phe Tyr Pro Trp Glu
 965 970 975
 Trp Gly Glu Lys Gly Ile Ser Thr Pro Arg Pro Lys Ile Val Ser Pro
 980 985 990
 Val Ser Gly Pro Glu His Pro Glu Leu Trp Arg Leu Thr Val Ala Ser
 995 1000 1005
 His His Ile Arg Ile Trp Ser Gly Asn Gln Thr Leu Glu Thr Arg
 1010 1015 1020
 Asp Cys Lys Pro Phe Tyr Thr Val Asp Leu Asn Ser Ser Leu Thr
 1025 1030 1035
 Val Pro Leu Gln Ser Cys Val Lys Pro Pro Tyr Met Leu Val Val
 1040 1045 1050
 Gly Asn Ile Val Ile Lys Pro Asp Ser Gln Thr Ile Thr Cys Glu
 1055 1060 1065
 Asn Cys Arg Leu Leu Thr Cys Ile Asp Ser Thr Phe Asn Trp Gln
 1070 1075 1080
 His Arg Ile Leu Leu Val Arg Ala Arg Glu Gly Val Trp Ile Pro
 1085 1090 1095
 Val Ser Met Asp Arg Pro Trp Glu Ala Ser Pro Ser Val His Ile
 1100 1105 1110
 Leu Thr Glu Val Leu Lys Gly Val Leu Asn Arg Ser Lys Arg Phe
 1115 1120 1125
 Ile Phe Thr Leu Ile Ala Val Ile Met Gly Leu Ile Ala Val Thr
 1130 1135 1140
 Ala Thr Ala Ala Val Ala Gly Val Ala Leu His Ser Ser Val Gln

SEQUENCE LISTING.ST25

1145	1150	1155
Ser Val Asn Phe Val Asn Asp	Trp Gln Lys Asn	Ser Thr Arg Leu
1160	1165	1170
Trp Asn Ser Gln Ser Ser Ile	Asp Gln Lys Leu	Ala Asn Gln Ile
1175	1180	1185
Asn Asp Leu Arg Gln Thr Val	Ile Trp Met Gly	Asp Arg Leu Met
1190	1195	1200
Ser Leu Glu His Arg Phe Gln	Leu Gln Cys Asp	Trp Asn Thr Ser
1205	1210	1215
Asp Phe Cys Ile Thr Pro Gln	Ile Tyr Asn Glu	Ser Glu His His
1220	1225	1230
Trp Asp Met Val Arg Arg His	Leu Gln Gly Arg	Glu Asp Asn Leu
1235	1240	1245
Thr Leu Asp Ile Ser Lys Leu	Lys Glu Gln Ile	Phe Glu Ala Ser
1250	1255	1260
Lys Ala His Leu Asn Leu Val	Pro Gly Thr Glu	Ala Ile Ala Gly
1265	1270	1275
Val Ala Asp Gly Leu Ala Asn	Leu Asn Pro Val	Thr Trp Val Lys
1280	1285	1290
Thr Ile Gly Ser Thr Ser Ile	Ile Asn Leu Ile	Leu Ile Leu Val
1295	1300	1305
Cys Leu Phe Cys Leu Leu Leu	Val Cys Arg Cys	Thr Gln Gln Leu
1310	1315	1320
Arg Arg Asp Ser Asp His Arg	Glu Arg Ala Met	Met Thr Met Ala
1325	1330	1335
Val Leu Ser Lys Arg Lys Gly	Gly Asn Val Gly	Lys Ser Lys Arg
1340	1345	1350
Asp Gln Ile Val Thr Val Ser	Val	
1355	1360	

<210> 109
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 109
 Met Asn Pro Ser Glu Met Gln Arg Lys Ala Pro Pro Arg Arg Arg Arg
 1 5 10 15
 His Arg Asn Arg Ala Pro Leu Thr His Lys Met Asn Lys Met Val Thr
 20 25 30
 Ser Glu Glu Gln Met Lys Leu Pro Ser Thr Lys Lys Ala Gly Pro Pro
 35 40 45
 Thr Trp Ala Gln Leu Lys Leu Thr Gln Leu Ala Thr Lys Tyr Leu
 50 55 60
 Glu Asn Thr Lys Val Thr Gln Thr Pro Glu Ser Met Leu Leu Ala Ala
 65 70 75 80
 Leu Met Ile Val Ser Met Val Ser Ala Gly Val Pro Asn Ser Ser Glu
 85 90 95
 Glu Thr Ala Thr Ile Glu Asn Gly Pro
 100 105

<210> 110
 <211> 20
 <212> DNA
 <213> Homo sapiens

<400> 110
 gaaaaaaaaatc aaaaaaaaaagaa

SEQUENCE LISTING.ST25

<211> 17
<212> DNA
<213> Homo sapiens

<400> 111
agccattaaat gccataa

17

<210> 112
<211> 15
<212> DNA
<213> Homo sapiens

<400> 112
taaataggat cactt

15

<210> 113
<211> 28
<212> DNA
<213> Homo sapiens

<400> 113
ggtgccggaaa tcaccatgcc cgctccat

28

<210> 114
<211> 18
<212> DNA
<213> Homo sapiens

<400> 114
attatatagc cccacgag

18

<210> 115
<211> 21
<212> DNA
<213> Homo sapiens

<400> 115
caagatggga tatataccag g

21

<210> 116
<211> 18
<212> DNA
<213> Homo sapiens

<400> 116
aaaacagaaa aaccgggtg

18

<210> 117
<211> 16
<212> DNA
<213> Homo sapiens

<400> 117
aaatcagtgg ccgcta

16

<210> 118

SEQUENCE LISTING.ST25

<211> 17
<212> DNA
<213> Homo sapiens

<400> 118
agttagaaaaa gggtcac

17

<210> 119
<211> 16
<212> DNA
<213> Homo sapiens

<400> 119
tgagccttcg ttctca

16

<210> 120
<211> 17
<212> DNA
<213> Homo sapiens

<400> 120
aggcaaatgg catacgt

17

<210> 121
<211> 15
<212> DNA
<213> Homo sapiens

<400> 121
ggcctctcca acccg

15

<210> 122
<211> 17
<212> DNA
<213> Homo sapiens

<400> 122
gagcaggatt gtgaaaa

17

<210> 123
<211> 21
<212> DNA
<213> Homo sapiens

<400> 123
tcttcaacca gtgagagaaa a

21

<210> 124
<211> 20
<212> DNA
<213> Homo sapiens

<400> 124
attatattga tgatattta

20

<210> 125

SEQUENCE LISTING.ST25

<211> 15
<212> DNA
<213> Homo sapiens

<400> 125
aacgaaaagat aaatt

15

<210> 126
<211> 15
<212> DNA
<213> Homo sapiens

<400> 126
tgactgttat acatt

15

<210> 127
<211> 16
<212> DNA
<213> Homo sapiens

<400> 127
ttcattatttt agggat

16

<210> 128
<211> 19
<212> DNA
<213> Homo sapiens

<400> 128
agatagaaaaa tagaaaaat

19

<210> 129
<211> 15
<212> DNA
<213> Homo sapiens

<400> 129
attattcaaaa atact

15

<210> 130
<211> 16
<212> DNA
<213> Homo sapiens

<400> 130
aataacaaaa ttatgt

16

<210> 131
<211> 15
<212> DNA
<213> Homo sapiens

<400> 131
agacaaaata gttgt

15

<210> 132

SEQUENCE LISTING.ST25

<211> 17
<212> DNA
<213> Homo sapiens

<400> 132
tcccttaac caaggaa

17

<210> 133
<211> 15
<212> DNA
<213> Homo sapiens

<400> 133
aaaagaatga gtcat

15

<210> 134
<211> 15
<212> DNA
<213> Homo sapiens

<400> 134
cagtatcaact tgact

15

<210> 135
<211> 23
<212> DNA
<213> Homo sapiens

<400> 135
tttaatcg tctattaaca ttg

23

<210> 136
<211> 16
<212> DNA
<213> Homo sapiens

<400> 136
aaaggatatt gagaga

16

<210> 137
<211> 16
<212> DNA
<213> Homo sapiens

<400> 137
cctaatcaaa tacatt

16

<210> 138
<211> 15
<212> DNA
<213> Homo sapiens

<400> 138
cgcttttaa tttgt

15

<210> 139

SEQUENCE LISTING.ST25

<211> 16
<212> DNA
<213> Homo sapiens

<400> 139
tgcattcatg gaagca

16

<210> 140
<211> 15
<212> DNA
<213> Homo sapiens

<400> 140
actcaggagg caaga

15

<210> 141
<211> 16
<212> DNA
<213> Homo sapiens

<400> 141
ttaagagaca tttatt

16

<210> 142
<211> 16
<212> DNA
<213> Homo sapiens

<400> 142
taaaggcagtt caaaaa

16

<210> 143
<211> 15
<212> DNA
<213> Homo sapiens

<400> 143
aataggaatt ctctta

15

<210> 144
<211> 16
<212> DNA
<213> Homo sapiens

<400> 144
aaagctcaat tggta

16

<210> 145
<211> 16
<212> DNA
<213> Homo sapiens

<400> 145
acggacgatc atttaa

16

<210> 146

SEQUENCE LISTING.ST25

<211> 666
 <212> PRT
 <213> Homo sapiens

<400> 146

Met Gly Gln Thr Lys Ser Lys Ile Lys Ser Lys Tyr Ala Ser Tyr Leu
 1 5 10 15
 Ser Phe Ile Lys Ile Leu Leu Lys Arg Gly Gly Val Lys Val Ser Thr
 20 25 30
 Lys Asn Leu Ile Lys Leu Phe Gln Ile Ile Glu Gln Phe Cys Pro Trp
 35 40 45
 Phe Pro Glu Gln Gly Thr Leu Asp Leu Lys Asp Trp Lys Arg Ile Gly
 50 55 60
 Lys Glu Leu Lys Gln Ala Gly Arg Lys Gly Asn Ile Ile Pro Leu Thr
 65 70 75 80
 Val Trp Asn Asp Trp Ala Ile Ile Lys Ala Ala Leu Glu Pro Phe Gln
 85 90 95
 Thr Glu Glu Asp Ser Val Ser Val Ser Asp Ala Pro Gly Ser Cys Ile
 100 105 110
 Ile Asp Cys Asn Glu Asn Thr Gly Lys Lys Ser Gln Lys Glu Thr Glu
 115 120 125
 Gly Leu His Cys Glu Tyr Val Ala Glu Pro Val Met Ala Gln Ser Thr
 130 135 140
 Gln Asn Val Asp Tyr Asn Gln Leu Gln Glu Val Ile Tyr Pro Glu Thr
 145 150 155 160
 Leu Lys Leu Glu Gly Lys Gly Pro Glu Leu Val Gly Pro Ser Glu Ser
 165 170 175
 Lys Pro Arg Gly Thr Ser Pro Leu Pro Ala Gly Gln Val Pro Val Thr
 180 185 190
 Leu Gln Pro Gln Lys Gln Val Lys Glu Asn Lys Thr Gln Pro Pro Val
 195 200 205
 Ala Tyr Gln Tyr Trp Pro Pro Ala Glu Leu Gln Tyr Arg Pro Pro Pro
 210 215 220
 Glu Ser Gln Tyr Gly Tyr Pro Gly Met Pro Pro Ala Pro Gln Gly Arg
 225 230 235 240
 Ala Pro Tyr Pro Gln Pro Pro Thr Arg Arg Leu Asn Pro Thr Ala Pro
 245 250 255
 Pro Ser Arg Gln Gly Ser Lys Leu His Glu Ile Ile Asp Lys Ser Arg
 260 265 270
 Lys Glu Gly Asp Thr Glu Ala Trp Gln Phe Pro Val Thr Leu Glu Pro
 275 280 285
 Met Pro Pro Gly Glu Gly Ala Gln Glu Gly Glu Pro Pro Thr Val Glu
 290 295 300
 Ala Arg Tyr Lys Ser Phe Ser Ile Lys Lys Leu Lys Asp Met Lys Glu
 305 310 315 320
 Gly Val Lys Gln Tyr Gly Pro Asn Ser Pro Tyr Met Arg Thr Leu Leu
 325 330 335
 Asp Ser Ile Ala His Gly His Arg Leu Ile Pro Tyr Asp Trp Glu Ile
 340 345 350
 Gln Ala Lys Ser Ser Leu Ser Pro Ser Gln Phe Leu Gln Phe Lys Thr
 355 360 365
 Trp Trp Ile Asp Gly Val Gln Glu Gln Val Arg Arg Asn Arg Ala Ala
 370 375 380
 Asn Pro Pro Val Asn Ile Asp Ala Asp Gln Leu Leu Gly Ile Gly Gln
 385 390 395 400
 Asn Trp Ser Thr Ile Ser Gln Gln Ala Leu Met Gln Asn Glu Ala Ile
 405 410 415
 Glu Gln Val Arg Ala Ile Cys Leu Arg Ala Trp Glu Lys Ile Gln Asp
 420 425 430
 Pro Gly Ser Thr Cys Pro Ser Phe Asn Thr Val Arg Gln Gly Ser Lys
 435 440 445
 Glu Pro Tyr Pro Asp Phe Val Ala Arg Leu Gln Asp Val Ala Gln Lys
 450 455 460

SEQUENCE LISTING.ST25

Ser Ile Ala Asp Glu Lys Ala Arg Lys Val Ile Val Glu Leu Met Ala
 465 470 475 480
 Tyr Glu Asn Ala Asn Pro Glu Cys Gln Ser Ala Ile Lys Pro Leu Lys
 485 490 495
 Gly Lys Val Pro Ala Gly Ser Asp Val Ile Ser Glu Tyr Val Lys Ala
 500 505 510
 Cys Asp Gly Ile Gly Gly Ala Met His Lys Ala Met Leu Met Ala Gln
 515 520 525
 Ala Ile Thr Gly Val Val Leu Gly Gly Gln Val Arg Thr Phe Gly Arg
 530 535 540
 Lys Cys Tyr Asn Cys Gly Gln Ile Gly His Leu Lys Lys Asn Cys Pro
 545 550 555 560
 Val Leu Asn Lys Gln Asn Ile Thr Ile Gln Ala Thr Thr Thr Gly Arg
 565 570 575
 Glu Pro Pro Asp Leu Cys Pro Arg Cys Lys Lys Gly Lys His Trp Ala
 580 585 590
 Ser Gln Cys Arg Ser Lys Phe Asp Lys Asn Gly Gln Pro Leu Ser Gly
 595 600 605
 Asn Glu Gln Arg Gly Gln Pro Gln Ala Pro Gln Gln Thr Gly Ala Phe
 610 615 620
 Pro Ile Gln Pro Phe Val Pro Gln Gly Phe Gln Gly Gln Gln Pro Pro
 625 630 635 640
 Leu Ser Gln Val Phe Gln Gly Ile Ser Gln Leu Pro Gln Tyr Asn Asn
 645 650 655
 Cys Pro Pro Pro Gln Ala Ala Val Gln Gln
 660 665

<210> 147
 <211> 333
 <212> PRT
 <213> Homo sapiens

<400> 147
 Trp Ala Thr Ile Val Gly Lys Arg Ala Lys Gly Pro Ala Ser Gly Pro
 1 5 10 15
 Thr Thr Asn Trp Gly Ile Pro Asn Ser Ala Ile Cys Ser Ser Gly Phe
 20 25 30
 Ser Gly Thr Thr Pro Thr Val Pro Ser Val Ser Gly Asn Lys Pro
 35 40 45
 Val Thr Thr Ile Gln Gln Leu Ser Pro Ala Thr Ser Gly Ser Ala Ala
 50 55 60
 Val Asp Leu Cys Thr Ile Gln Ala Val Ser Leu Leu Pro Gly Glu Pro
 65 70 75 80
 Pro Gln Lys Thr Pro Thr Gly Val Tyr Gly Pro Leu Pro Lys Gly Thr
 85 90 95
 Val Gly Leu Ile Leu Gly Arg Ser Ser Leu Asn Leu Lys Gly Val Gln
 100 105 110
 Ile His Thr Ser Val Val Asp Ser Asp Tyr Lys Gly Glu Ile Gln Leu
 115 120 125
 Val Ile Ser Ser Ser Ile Pro Trp Ser Ala Ser Pro Arg Asp Arg Ile
 130 135 140
 Ala Gln Leu Leu Leu Leu Pro Tyr Ile Lys Gly Gly Asn Ser Glu Ile
 145 150 155 160
 Lys Arg Ile Gly Gly Leu Gly Ser Thr Asp Pro Thr Gly Lys Ala Ala
 165 170 175
 Tyr Trp Ala Ser Gln Val Ser Glu Asn Arg Pro Val Cys Lys Ala Ile
 180 185 190
 Ile Gln Gly Lys Gln Phe Glu Gly Leu Val Asp Thr Gly Ala Asp Val
 195 200 205
 Ser Ile Ile Ala Leu Asn Gln Trp Pro Lys Asn Trp Pro Lys Gln Lys
 210 215 220
 Ala Val Thr Gly Leu Val Gly Ile Gly Thr Ala Ser Glu Val Tyr Gln

SEQUENCE LISTING.ST25

225	230	235	240
Ser Thr Glu Ile Leu His Cys Leu Gly Pro Asp Asn Gln Glu Ser Thr			
245	250	255	
Val Gln Pro Met Ile Thr Ser Ile Pro Leu Asn Leu Trp Gly Arg Asp			
260	265	270	
Leu Leu Gln Gln Trp Gly Ala Glu Ile Thr Met Pro Ala Pro Ser Tyr			
275	280	285	
Ser Pro Thr Ser Gln Lys Ile Met Thr Lys Met Gly Tyr Ile Pro Gly			
290	295	300	
Lys Gly Leu Gly Lys Asn Glu Asp Gly Ile Lys Ile Pro Val Glu Ala			
305	310	315	320
Lys Ile Asn Gln Glu Arg Glu Gly Ile Gly Asn Pro Cys			
325	330		

<210> 148
<211> 956
<212> PRT
<213> Homo sapiens

<400> 148			
Asn Lys Ser Arg Lys Arg Arg Asn Arg Glu Ser Leu Leu Gly Ala Ala			
1	5	10	15
Thr Val Glu Pro Pro Lys Pro Ile Pro Leu Thr Trp Lys Thr Glu Lys			
20	25	30	
Pro Val Trp Val Asn Gln Trp Pro Leu Pro Lys Gln Lys Leu Glu Ala			
35	40	45	
Leu His Leu Leu Ala Asn Glu Gln Leu Glu Lys Gly His Ile Glu Pro			
50	55	60	
Ser Phe Ser Pro Trp Asn Ser Pro Val Phe Val Ile Gln Lys Lys Ser			
65	70	75	80
Gly Lys Trp Arg Met Leu Thr Asp Leu Arg Ala Val Asn Ala Val Ile			
85	90	95	
Gln Pro Met Gly Pro Leu Gln Pro Gly Leu Pro Ser Pro Ala Met Ile			
100	105	110	
Pro Lys Asp Trp Pro Leu Ile Ile Asp Leu Lys Asp Cys Phe Phe			
115	120	125	
Thr Ile Pro Leu Ala Glu Gln Asp Cys Glu Lys Phe Ala Phe Thr Ile			
130	135	140	
Pro Ala Ile Asn Asn Lys Glu Pro Ala Thr Arg Phe Gln Trp Lys Val			
145	150	155	160
Leu Pro Gln Gly Met Leu Asn Ser Pro Thr Ile Cys Gln Thr Phe Val			
165	170	175	
Gly Arg Ala Leu Gln Pro Val Arg Glu Lys Phe Ser Asp Cys Tyr Ile			
180	185	190	
Ile His Cys Ile Asp Asp Ile Leu Cys Ala Ala Glu Thr Lys Asp Lys			
195	200	205	
Leu Ile Asp Cys Tyr Thr Phe Leu Gln Ala Glu Val Ala Asn Ala Gly			
210	215	220	
Leu Ala Ile Ala Ser Asp Lys Ile Gln Thr Ser Thr Pro Phe His Tyr			
225	230	235	240
Leu Gly Met Gln Ile Glu Asn Arg Lys Ile Lys Pro Gln Lys Ile Glu			
245	250	255	
Ile Arg Lys Asp Thr Leu Lys Thr Leu Asn Asp Phe Gln Lys Leu Leu			
260	265	270	
Gly Asp Ile Asn Trp Ile Arg Pro Thr Leu Gly Ile Pro Thr Tyr Ala			
275	280	285	
Met Ser Asn Leu Phe Ser Ile Leu Arg Gly Asp Ser Asp Leu Asn Ser			
290	295	300	
Lys Arg Met Leu Thr Pro Glu Ala Thr Lys Glu Ile Lys Leu Val Glu			
305	310	315	320
Glu Lys Ile Gln Ser Ala Gln Ile Asn Arg Ile Asp Pro Leu Ala Pro			
325	330	335	

SEQUENCE LISTING ST25

Leu Gln Leu Leu Ile Phe Ala Thr Ala His Ser Pro Thr Gly Ile Ile
 340 345 350
 Ile Gln Asn Thr Asp Leu Val Glu Trp Ser Phe Leu Pro His Ser Thr
 355 360 365
 Val Lys Thr Phe Thr Leu Tyr Leu Asp Gln Ile Ala Thr Leu Ile Gly
 370 375 380
 Gln Thr Arg Leu Arg Ile Ile Lys Leu Cys Gly Asn Asp Pro Asp Lys
 385 390 395 400
 Ile Val Val Pro Leu Thr Lys Glu Gln Val Arg Gln Ala Phe Ile Asn
 405 410 415
 Ser Gly Ala Trp Lys Ile Gly Leu Ala Asn Phe Val Gly Ile Ile Asp
 420 425 430
 Asn His Tyr Pro Lys Thr Lys Ile Phe Gln Phe Leu Lys Leu Thr Thr
 435 440 445
 Trp Ile Leu Pro Lys Ile Thr Arg Arg Glu Pro Leu Glu Asn Ala Leu
 450 455 460
 Thr Val Phe Thr Asp Gly Ser Ser Asn Gly Lys Ala Ala Tyr Thr Gly
 465 470 475 480
 Pro Lys Glu Arg Val Ile Lys Thr Pro Tyr Gln Ser Ala Gln Arg Ala
 485 490 495
 Glu Leu Val Ala Val Ile Thr Val Leu Gln Asp Phe Asp Gln Pro Ile
 500 505 510
 Asn Ile Ile Ser Asp Ser Ala Tyr Val Val Gln Ala Thr Arg Asp Val
 515 520 525
 Glu Thr Ala Leu Ile Lys Tyr Ser Met Asp Asp Gln Leu Asn Gln Leu
 530 535 540
 Phe Asn Leu Leu Gln Gln Thr Val Arg Lys Arg Asn Phe Pro Phe Tyr
 545 550 555 560
 Ile Thr His Ile Arg Ala His Thr Asn Leu Pro Gly Pro Leu Thr Lys
 565 570 575
 Ala Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Leu Ile Lys Ala
 580 585 590
 Gln Glu Leu His Ala Leu Thr His Val Asn Ala Ala Gly Leu Lys Asn
 595 600 605
 Lys Phe Asp Val Thr Trp Lys Gln Ala Lys Asp Ile Val Gln His Cys
 610 615 620
 Thr Gln Cys Gln Val Leu His Leu Pro Thr Gln Glu Ala Gly Val Asn
 625 630 635 640
 Pro Arg Gly Leu Cys Pro Asn Ala Leu Trp Gln Met Asp Val Thr His
 645 650 655
 Val Pro Ser Phe Gly Arg Leu Ser Tyr Val His Val Thr Val Asp Thr
 660 665 670
 Tyr Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser Thr Ser
 675 680 685
 His Val Lys Lys His Leu Leu Ser Cys Phe Ala Val Met Gly Val Pro
 690 695 700
 Glu Lys Ile Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys Ala Phe
 705 710 715 720
 Gln Lys Phe Leu Ser Gln Trp Lys Ile Ser His Thr Thr Gly Ile Pro
 725 730 735
 Tyr Asn Ser Gln Gly Gln Ala Ile Val Glu Arg Thr Asn Arg Thr Leu
 740 745 750
 Lys Thr Gln Leu Val Lys Gln Lys Glu Gly Gly Asp Ser Lys Glu Cys
 755 760 765
 Thr Thr Pro Gln Met Gln Leu Asn Leu Ala Leu Tyr Thr Leu Asn Phe
 770 775 780
 Leu Asn Ile Tyr Arg Asn Gln Thr Thr Ser Ala Glu Gln His Leu
 785 790 795 800
 Thr Gly Lys Lys Asn Ser Pro His Glu Gly Lys Leu Ile Trp Trp Lys
 805 810 815
 Asp Asn Lys Asn Lys Thr Trp Glu Ile Gly Lys Val Ile Thr Trp Gly
 820 825 830
 Arg Gly Phe Ala Cys Val Ser Pro Gly Glu Asn Gln Leu Pro Val Trp

SEQUENCE LISTING.ST25

835	840	845	
Ile Pro Thr Arg His Leu Lys Phe Tyr Asn Glu Pro Ile Arg Asp Ala			
850	855	860	
Lys Lys Ser Thr Ser Ala Glu Thr Glu Thr Ser Gln Ser Ser Thr Val			
865	870	875	880
Asp Ser Gln Asp Glu Gln Asn Gly Asp Val Arg Arg Thr Asp Glu Val			
885	890	895	
Ala Ile His Gln Glu Gly Arg Ala Ala Asn Leu Gly Thr Thr Lys Glu			
900	905	910	
Ala Asp Ala Val Ser Tyr Lys Ile Ser Arg Glu His Lys Gly Asp Thr			
915	920	925	
Asn Pro Arg Glu Tyr Ala Ala Cys Ser Leu Asp Asp Cys Ile Asn Gly			
930	935	940	
Gly Lys Ser Pro Tyr Ala Cys Arg Ser Ser Cys Ser			
945	950	955	

<210> 149
<211> 699
<212> PRT
<213> Homo sapiens

<400> 149

Met Asn Pro Ser Glu Met Gln Arg Lys Ala Pro Pro Arg Arg Arg Arg			
1	5	10	15
His Arg Asn Arg Ala Pro Leu Thr His Lys Met Asn Lys Met Val Thr			
20	25	30	
Ser Glu Glu Gln Met Lys Leu Pro Ser Thr Lys Lys Ala Glu Pro Pro			
35	40	45	
Thr Trp Ala Gln Leu Lys Leu Thr Gln Leu Ala Thr Lys Tyr Leu			
50	55	60	
Glu Asn Thr Lys Val Thr Gln Thr Pro Glu Ser Met Leu Leu Ala Ala			
65	70	75	80
Leu Met Ile Val Ser Met Val Val Ser Leu Pro Met Pro Ala Gly Ala			
85	90	95	
Ala Ala Ala Asn Tyr Thr Tyr Trp Ala Tyr Val Pro Phe Pro Pro Leu			
100	105	110	
Ile Arg Ala Val Thr Trp Met Asp Asn Pro Thr Glu Val Tyr Val Asn			
115	120	125	
Asp Ser Val Trp Val Pro Gly Pro Ile Asp Asp Arg Cys Pro Ala Lys			
130	135	140	
Pro Glu Glu Glu Gly Met Met Ile Asn Ile Ser Ile Gly Tyr His Tyr			
145	150	155	160
Pro Pro Ile Cys Leu Gly Arg Ala Pro Gly Cys Leu Met Pro Ala Val			
165	170	175	
Gln Asn Trp Leu Val Glu Val Pro Thr Val Ser Pro Ile Cys Arg Phe			
180	185	190	
Thr Tyr His Met Val Ser Gly Met Ser Leu Arg Pro Arg Val Asn Tyr			
195	200	205	
Leu Gln Asp Phe Ser Tyr Gln Arg Ser Leu Lys Phe Arg Pro Lys Gly			
210	215	220	
Lys Pro Cys Pro Lys Glu Ile Pro Lys Glu Ser Lys Asn Thr Glu Val			
225	230	235	240
Leu Val Trp Glu Glu Cys Val Ala Asn Ser Ala Val Ile Leu Gln Asn			
245	250	255	
Asn Glu Phe Gly Thr Ile Ile Asp Trp Ala Pro Arg Gly Gln Phe Tyr			
260	265	270	
His Asn Cys Ser Gly Gln Thr Gln Ser Cys Pro Ser Ala Gln Val Ser			
275	280	285	
Pro Ala Val Asp Ser Asp Leu Thr Glu Ser Leu Asp Lys His Lys His			
290	295	300	
Lys Lys Leu Gln Ser Phe Tyr Pro Trp Glu Trp Gly Glu Lys Gly Ile			
305	310	315	320

SEQUENCE LISTING .ST25

Ser Thr Pro Arg Pro Lys Ile Val Ser Pro Val Ser Gly Pro Glu His
 325 330 335
 Pro Glu Leu Trp Arg Leu Thr Val Ala Ser His His Ile Arg Ile Trp
 340 345 350
 Ser Gly Asn Gln Thr Leu Glu Thr Arg Asp Arg Lys Pro Phe Tyr Thr
 355 360 365
 Ile Asp Leu Asn Ser Ser Leu Thr Val Pro Leu Gln Ser Cys Val Lys
 370 375 380
 Pro Pro Tyr Met Leu Val Val Gly Asn Ile Val Ile Lys Pro Asp Ser
 385 390 395 400
 Gln Thr Ile Thr Cys Glu Asn Cys Arg Leu Leu Thr Cys Ile Asp Ser
 405 410 415
 Thr Phe Asn Trp Gln His Arg Ile Leu Leu Val Arg Ala Arg Glu Gly
 420 425 430
 Val Trp Ile Pro Val Ser Met Asp Arg Pro Trp Glu Ala Ser Pro Ser
 435 440 445
 Val His Ile Leu Thr Glu Val Leu Lys Gly Val Leu Asn Arg Ser Lys
 450 455 460
 Arg Phe Ile Phe Thr Leu Ile Ala Val Ile Met Gly Leu Ile Ala Val
 465 470 475 480
 Thr Ala Thr Ala Ala Val Ala Gly Val Ala Leu His Ser Ser Val Gln
 485 490 495
 Ser Val Asn Phe Val Asn Asp Trp Gln Lys Asn Ser Thr Arg Leu Trp
 500 505 510
 Asn Ser Gln Ser Ser Ile Asp Gln Lys Leu Ala Asn Gln Ile Asn Asp
 515 520 525
 Leu Arg Gln Thr Val Ile Trp Met Gly Asp Arg Leu Met Ser Leu Glu
 530 535 540
 His Arg Phe Gln Leu Gln Cys Asp Trp Asn Thr Ser Asp Phe Cys Ile
 545 550 555 560
 Thr Pro Gln Ile Tyr Asn Glu Ser Glu His His Trp Asp Met Val Arg
 565 570 575
 Arg His Leu Gln Gly Arg Glu Asp Asn Leu Thr Leu Asp Ile Ser Lys
 580 585 590
 Leu Lys Glu Gln Ile Phe Glu Ala Ser Lys Ala His Leu Asn Leu Val
 595 600 605
 Pro Gly Thr Glu Ala Ile Ala Gly Val Ala Asp Gly Leu Ala Asn Leu
 610 615 620
 Asn Pro Val Thr Trp Val Lys Thr Ile Gly Ser Thr Thr Ile Ile Asn
 625 630 635 640
 Leu Ile Leu Ile Leu Val Cys Leu Phe Cys Leu Leu Leu Val Cys Arg
 645 650 655
 Cys Thr Gln Gln Leu Arg Arg Asp Ser Asp His Arg Glu Arg Ala Met
 660 665 670
 Met Thr Met Ala Val Leu Ser Lys Arg Lys Gly Gly Asn Val Gly Lys
 675 680 685
 Ser Lys Arg Asp Gln Ile Val Thr Val Ser Val
 690 695

<210> 150
 <211> 968
 <212> DNA
 <213> Homo sapiens

<400> 150

tgtggggaaa agcaagagag atcagattgt tactgtgtct gtgttagaaag aagttagacat 60
 aggagactcc attttgttat gtactaagaa aaattcttct gccttgagat tctgttaatc 120
 tatgaccccta cccccaaccc cgtgctctct gaaacatgtg ctgtgtccac tcagggttaa 180
 atggattaaag ggcgggtcag gatgtgtttt gttaaacaga tgcttgaagg cagcatgctc 240
 cttaagagtc atcaccactc cctaatctca agtacccagg gacacaaaaa ctgcggaaagg 300
 ccgcaggagac ctctgcctag gaaagccagg tattgtccaa cggttctccc catgtgatag 360
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gattgtatgc	tccatctact	gagataggga	aaaaccgcct	tagggctgga	ggtgggacct	600
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gctgaccctc	tccccacaat	tgtctgtga	ccctgacaca	tccccctctt	cgagaaacac	780
ccacagatga	tcaagaaata	ctaagggAAC	tcagaggctg	gcgggatcct	ccatatgctg	840
aacgctgggtt	ccccgggtcc	ccttcttct	ttctctatac	tttgtctctg	tgtcttttc	900
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cccttaca						968

<210> 151

<211> 962

<212> DNA

<213> Homo sapiens

<400> 151

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taccccaac	cccgctgctt	ctgaaacatg	tgctgtgtca	aactcagggt	taaatggatt	180
aaggcggtg	caggatgtgc	tttggtaaac	agatgctga	aggcagcatg	ctcccttaaga	240
gtcatcacca	ctccctaattc	tcaagtaccc	agggacacaa	acactgcgg	aggccgcagg	300
gacctctgcc	taggaaagcc	aggtattgtc	caagggttct	cccatgtga	tagtctgaaa	360
tatggctcg	tgggaaaggga	aagacctgac	cgtccccag	cccacaccc	gtaaagggtc	420
tgtgtctagg	aggattagta	aaagaggaag	gcatgcctt	tgcgttgag	acaagaggaa	480
ggcatctgtc	tcctgcccgt	ccctggca	tggaatgtct	cggataaaa	ccggattgt	540
cgttccatct	actgagatag	ggaaaaaaccg	ccttagggct	ggaggtggga	cctgcgggca	600
gcaatactgc	tttttaaagc	attgagatgt	ttatgtgtat	gcatatctaa	aagcacagca	660
cttaatcctt	tacctgtct	atgatgcaaa	gatctttgtt	cacgtgtttg	tctgtgacc	720
ctctccccac	tattgtctg	tgaccctgac	acatcccct	ctcgagaaa	cacccacgaa	780
tgaccaataa	atactaaagg	gaactcagag	gctggcggtt	tcctccat	gctgaacgct	840
gttccccgg	gcccccttat	ttcttctct	acactttgtc	tctgtgtctt	tttctttct	900
aagtctctcg	ttccacctta	cgagaaacac	ccacagggtt	ggaggggca	cccaccccta	960
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<210> 152

<211> 968

<212> DNA

<213> Homo sapiens

<400> 152

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tatgacctta	cccccaaccc	cgtgtctt	gaaacatgt	ctgtgtcaac	tcagggttga	180
atggattaag	ggcggtgcag	gatgtgttt	gtttaaacaga	tgcttgaagg	cagcatgctc	240
cttaagagtc	atcaccactc	cctaatctca	agtaccagg	gacacaaaaa	ctgcggagg	300
ccgcaggac	ctctgcctag	gaaagccagg	tattgtccaa	ggttctccc	catgtgatag	360
tctgaaatat	ggcctgtgg	gaagggaaag	acctgaccat	cccccagccc	gacaccata	420
aagggtctgt	gctgaggagg	attagtataa	gaggaaggca	tgcccttgc	agttgagaca	480
agaggaaggc	atctgtctcc	tgcctgtccc	tgggcaatgg	aatgtctcg	tataaaaccc	540
gattgtatgc	tccatctact	gagataggga	aaaaccgcct	tagggctgga	ggtgggacct	600
gcgggcagca	atactgcctt	gtaaagcatt	gagatgtta	tgtgtatgca	tatctaaaag	660
cacagcaact	atcccttac	attgtctatg	atgcaaagac	cttggttcac	gtgtttgtct	720
gctgaccctc	tccccacaat	tgtctgtga	ccctgacaca	tccccctctt	tgagaaacac	780
ccacagatga	tcaataaata	ctaagggAAC	tcagaggctg	gcgggatcct	ccatatgctg	840
aacgctgggtt	ccccgggtcc	ccttatttct	ttctctatac	tttgtctctg	tgtcttttc	900
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<210> 153

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<211> 968
 <212> DNA
 <213> Homo sapiens

<400> 153

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tataaccta	cccccaaccc	cgt	gctctt	gaa	acatgt	ctgt	tcac	tcagaggtaa	180
atggattaag	tgcggtgcaa	gat	tgctt	gtt	aaacaga	tgctt	gaagg	cagcatgctc	240
ctttagagtc	atcaccactc	cct	aatctca	ag	tacc	gacaca	aaaaaa	ctgcggaaagg	300
cctcaggac	ctctgcctag	gaa	aggccagg	tatt	gtccaa	ggtt	ctccc	catgtgatag	360
tctgaaat	ggcctcg	ttt	gaagg	ac	ctgaccat	cccc	agccc	gacacccgta	420
aagggtctgt	gctgaggagg	att	agtaaaaa	gag	gagaaggaa	cgcc	cttgc	agttgagaca	480
agaggaaggc	atctgtctcc	tg	ccgttccc	tgg	caatgg	aat	gtcccgg	tataaaaccc	540
gattgtatgc	tccatctact	gag	atagg	aaa	accgcct	tag	ggcttgg	ggtgggac	600
gcgggcagca	atactgctt	gt	aaagcatt	gag	ctgtt	tgt	gtatgc	tatctaaaag	660
cacagca	tttac	ttt	gtt	atg	caaaagac	ctt	gtt	gttgc	720
gctgacc	cccccacaat	tgt	tttgc	cc	ctgacaca	tcc	ccctt	cgagaaacac	780
ccacgaat	tgaataaaata	ct	aaagg	tc	agagg	gc	ggat	ccatatgctg	840
aacgctgg	ttttttttcc	c	tttactt	tt	ctgtt	ttt	cttgc	tgtttttt	900
tttcca	tttcca	ttt	tttac	ttt	tttgc	ttt	tttgc	tttgc	960
ccc	taca								968

<210> 154

<211> 968

<212> DNA

<213> Homo sapiens

<400> 154

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tataaccta	cccccaaccc	cgt	gctctct	gaa	acatgt	ctatgt	tcac	tcagaggta	180
atggattaag	ggcggtgcaa	gat	tgctt	gtt	aaacaga	tgctt	gaagg	cagcacgctc	240
ctttagagtc	atcaccactc	cct	aatctca	ag	tacc	gacaca	aaaaaa	ctgcggaaagg	300
ccgcaggac	ctctgcctag	gaa	aggccagg	tatt	gtccaa	ggtt	ctccc	catgtgatag	360
tctgaaat	ggcctcg	ttt	gaagg	ac	ctgaccat	cccc	agccc	gacacctgta	420
aagggtctgt	gctgaggagg	att	agtataa	gag	gagaaggca	tg	cc	agttgagaca	480
agaggaaggc	atctgtctcc	tg	ccgttccc	tgg	caatgg	aat	gttccgg	tataaaaccc	540
gattgtatgt	tccatctact	gag	atagg	aaa	accgcct	tag	ggcttgg	ggtgggac	600
gcgggcagca	atactgctt	gt	aaagcatt	gag	atgtt	tgt	gtatgc	tatctaaaag	660
cacagca	tttac	ttt	gtt	atg	caaaagac	ctt	gtt	gttgc	720
gctgacc	cccccacaat	tgt	tttgc	cc	ctgacaca	tcc	ccctt	cgagaaacac	780
ccacgaat	tgaataaaata	ct	aaagg	tc	agagg	gc	ggat	ccatatgctg	840
aacgctgg	ttttttttcc	c	tttactt	tt	ctgtt	ttt	cttgc	tgtttttt	900
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<210> 155

<211> 150

<212> DNA

<213> Homo sapiens

<400> 155

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<210> 156

<211> 258

<212> DNA

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<213> Homo sapiens

<400> 156

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ccatatgtg	aacgctggtt	ccccgggtcc	ccttcttct	ttctctatac	tttgtctctg	180
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<210> 157

<211> 2707

<212> DNA

<213> Homo sapiens

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<222> (1)..(2707)

<223> N=A,G,C,T

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cctccncgga	gacggaaaca	ccgcaatcga	gcancnnnn	nnnnnnnnnn	ngactcacaa	180
gatgaanaaa	atgggtan	cagaagaaca	gatgaagttg	ccatccacca	agaangcnga	240
gcccgcact	ttgggcacaan	taaagaagct	gacacagttt	gctanaaaan	nnnnnctnga	300
gaacacaaaag	gtgacacaaa	ctccagagan	tatgtctgtt	gcagcttga	tgattgtatc	360
aatggtgta	agtctccna	tgcctgcagg	agcagctca	gctaantata	cntactggc	420
ctatgtgcct	ttccccccct	taattcgggc	agtcacatgg	atggataatc	ctattgaagt	480
atatgttaat	aatagtgtat	gggnatccctg	gccccacaga	tgatcggtgc	cctgccaac	540
ctgaggaaga	aggaatgtat	ataaatat	ccattggta	tcnttac	cctatttgc	600
tagggagagc	accaggatgt	ttaatngcct	gcantccaa	attgggttgt	agaagtacat	660
actgtcagtn	ccancagtag	attca	cacatggtaa	gnngnatgtc	actcaggcca	720
cnggtaaatn	attacanga	ctttcttat	caaagatcat	taaaatttag	ncctaaaggg	780
aaaccttgc	ccaagggaaat	tcccaaagna	tcaaaanann	cagaagttt	agtttggaa	840
gaatgtgtgg	cnaatagtgc	ngtata	caaaacaatg	aatttggaa	tattatagat	900
tgggcacctc	gaggtaatt	ctancacann	nnnnnnnnnn	nnnnnnnnnn	nnattgcnca	960
ggncaaactc	antcntgtcc	nagngacaa	gnnnnnnnnn	nnnnnagtcc	agctgttgat	1020
agngacttaa	cagaaagtt	agacnaan	nanntanaa	nntanantc	nnctanccn	1080
tggnaatggg	gngaaaangg	aatntcnncn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1140
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nnnnnnnnnn	nccnngacca	aanntantna	gtcctgttnc	tggcctgaa	catccagaat	1500
tatggangct	tactgtggc	tcannaccac	attagaattt	ggctggaaa	tcaanctnta	1560
gaaacaagag	atcntaagcc	atnttatact	atcnaccta	attccagtct	nacanttcct	1620
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ccagantccc	aaactatann	acctgtgaaa	attgttagatt	gttacttgc	attgattcaa	1740
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aaggnttnt	aantagatcc	aaaagattca	ttttacttt	aattgcagt	attatgggn	1920
tnattgcagt	cacagctacn	gctcngnng	cngganttc	nttncactn	tctgttccn	1980
cngnanantn	tgttaatnat	tggcaaaaana	anttcncaa	nattgtggaa	ttcncananc	2040
nnnnatngat	caaaaattgg	caaataat	taatgtat	agacaaactg	tcatttggat	2100
gggaganagn	ctcatgact	tngaanatcn	tttncagtt	cantgtgact	ggaatacgtc	2160
agattttgt	attacaccnc	aanntataa	tgagtctgag	catca	acatggtag	2220
angccatcta	canggaagag	aagataatct	nactttagac	atttcnaat	aaaagaann	2280
nnnnnnnnnn	ncaaat	aaagccatt	taaatttgg	gccaggaact	2340	
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accatngaa	gtncnacnat	tntaaatntc	atattaatcc	ttgtntgcct	tttgtctg	2460
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gagagatcg antgttactg tngtctntgt agaaaanangn agacatanga gactccattt	2640
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<211> 673
<212> PRT
<213> Homo sapiens

<220>
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<222> (1)...(673)
<223> Xaa=Any amino acid

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Trp Lys Arg Ile Gly Xaa Glu Leu Lys Gln Ala Gly Arg Lys Gly Asn
65 70 75 80
Xaa
85 90 95
Xaa Asp Ala
100 105 110
Pro Gly Ser Cys Ile Ile Asp Cys Asn Glu Xaa Thr Xaa Lys Lys Ser
115 120 125
Gln Lys Glu Thr Glu Xaa Leu His Cys Glu Tyr Val Xaa Xaa Xaa Xaa
130 135 140
Xaa
145 150 155 160
Xaa
165 170 175
Xaa Ala Gly
180 185 190
Gln Val Xaa Val Thr Leu Gln Pro Gln Xaa Gln Val Lys Glu Asn Lys
195 200 205
Thr Gln Xaa Pro Val Ala Tyr Gln Tyr Trp Pro Pro Xaa Xaa Xaa Xaa
210 215 220
Xaa Xaa Xaa Xaa Xaa Ser Gln Tyr Gly Tyr Xaa Gly Met Pro Pro
225 230 235 240
Ala Xaa Gln Xaa Arg Xaa Pro Tyr Pro Gln Pro Pro Thr Xaa Arg Xaa
245 250 255
Xaa
260 265 270
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275 280 285
Xaa
290 295 300
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305 310 315 320
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325 330 335
Xaa
340 345 350
Xaa
355 360 365

SEQUENCE LISTING.ST25

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 370 375 380
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 385 390 395 400
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 405 410 415
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 420 425 430
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 435 440 445
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 485 490 495
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 500 505 510
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 515 520 525
 Xaa
 530 535 540
 Xaa
 545 550 555 560
 Xaa
 565 570 575
 Xaa
 580 585 590
 Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Ser Lys Phe Asp Lys Xaa
 595 600 605
 Gly Gln Pro Leu Ser Gly Asn Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
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<210> 159
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 <212> PRT
 <213> Homo sapiens

<220>
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 <222> (1)...(1035)
 <223> Xaa=Any amino acid

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SEQUENCE LISTING.ST25

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 145 150 155 160
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 165 170 175
 Xaa
 180 185 190
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 195 200 205
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 210 215 220
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 225 230 235 240
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asp Xaa Leu Ala Pro Leu
 245 250 255
 Gln Leu Leu Ile Phe Ala Thr Ala His Ser Xaa Thr Gly Ile Ile Ile
 260 265 270
 Gln Asn Thr Asp Leu Val Glu Trp Ser Phe Leu Pro His Ser Thr Val
 275 280 285
 Lys Thr Phe Thr Leu Tyr Leu Asp Gln Met Ala Thr Leu Ile Gly Gln
 290 295 300
 Xaa Arg Leu Arg Ile Ile Xaa Leu Cys Gly Asn Asp Pro Asp Lys Ile
 305 310 315 320
 Xaa Val Pro Xaa Xaa Lys Xaa Gln Val Arg Gln Ala Phe Ile Xaa Ser
 325 330 335
 Gly Ala Trp Xaa Ile Gly Leu Ala Asn Phe Leu Gly Ile Ile Asp Asn
 340 345 350
 His Tyr Pro Lys Thr Lys Ile Phe Gln Phe Leu Lys Leu Thr Thr Trp
 355 360 365
 Ile Leu Pro Lys Ile Thr Arg Arg Glu Pro Leu Glu Asn Ala Leu Thr
 370 375 380
 Val Phe Thr Asp Gly Ser Ser Asn Gly Lys Ala Ala Tyr Thr Gly Pro
 385 390 395 400
 Lys Glu Arg Val Ile Lys Thr Pro Tyr Gln Ser Ala Gln Arg Ala Glu
 405 410 415
 Leu Val Ala Val Ile Thr Val Leu Gln Asp Phe Asp Gln Pro Ile Asn
 420 425 430
 Ile Ile Ser Asp Ser Ala Tyr Val Val Gln Ala Thr Arg Asp Val Glu
 435 440 445
 Thr Ala Leu Ile Lys Tyr Ser Xaa Asp Asp Xaa Leu Asn Gln Leu Phe
 450 455 460
 Asn Leu Leu Gln Gln Thr Val Arg Lys Arg Asn Phe Pro Phe Tyr Ile
 465 470 475 480
 Thr His Ile Arg Ala His Thr Asn Leu Pro Gly Pro Leu Thr Lys Ala
 485 490 495
 Asn Glu Gln Ala Asp Leu Leu Val Ser Ser Ala Xaa Ile Lys Ala Gln
 500 505 510
 Glu Leu Xaa Ala Leu Thr His Val Asn Ala Ala Gly Leu Lys Asn Lys
 515 520 525
 Phe Asp Val Thr Trp Lys Gln Ala Lys Asp Ile Val Gln His Cys Thr
 530 535 540
 Gln Cys Gln Val Leu His Leu Xaa Thr Gln Glu Ala Gly Val Asn Pro
 545 550 555 560
 Arg Gly Leu Cys Pro Asn Ala Leu Trp Gln Met Asp Xaa Thr His Val
 565 570 575
 Xaa Ser Phe Gly Arg Leu Ser Tyr Val His Val Thr Val Asp Thr Tyr

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580	585	590	
Ser His Phe Ile Trp Ala Thr Cys Gln Thr Gly Glu Ser Thr Ser His			
595	600	605	
Val Lys Lys His Leu Leu Ser Cys Phe Ala Val Met Gly Val Pro Glu			
610	615	620	
Lys Ile Lys Thr Asp Asn Gly Pro Gly Tyr Cys Ser Lys Ala Phe Gln			
625	630	635	640
Lys Phe Leu Ser Gln Trp Lys Ile Ser His Thr Thr Gly Ile Pro Tyr			
645	650	655	
Asn Ser Gln Gly Gln Ala Ile Val Glu Arg Thr Asn Arg Thr Leu Lys			
660	665	670	
Thr Gln Leu Val Lys Gln Lys Glu Gly Gly Asp Ser Lys Glu Cys Thr			
675	680	685	
Thr Pro Gln Met Gln Leu Asn Leu Ala Leu Tyr Thr Leu Asn Phe Leu			
690	695	700	
Asn Ile Tyr Arg Asn Gln Thr Thr Ser Ala Xaa Gln His Leu Thr			
705	710	715	720
Gly Lys Lys Xaa Ser Pro His Glu Gly Lys Leu Ile Trp Trp Lys Asp			
725	730	735	
Xaa Lys Asn Lys Thr Trp Glu Ile Gly Lys Val Ile Thr Trp Gly Arg			
740	745	750	
Gly Phe Ala Cys Val Ser Pro Gly Glu Asn Gln Leu Pro Val Trp Ile			
755	760	765	
Pro Thr Arg His Leu Lys Phe Tyr Asn Glu Pro Ile Xaa Asp Ala Lys			
770	775	780	
Lys Xaa Xaa Ser Xaa Glu Xaa Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa			
785	790	795	800
Xaa			
805	810	815	
Xaa			
820	825	830	
Xaa			
835	840	845	
Xaa			
850	855	860	
Xaa			
865	870	875	880
Xaa			
885	890	895	
Xaa			
900	905	910	
Xaa			
915	920	925	
Xaa			
930	935	940	
Xaa			
945	950	955	960
Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ala Xaa Xaa Xaa Asp Xaa Xaa Xaa			
965	970	975	
Xaa Xaa Xaa Lys Xaa Pro Xaa			
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Glu Trp Gly Xaa Xaa Xaa Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser			
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Xaa			
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<210> 160
 <211> 1081
 <212> PRT
 <213> Homo sapiens

SEQUENCE LISTING.ST25

<220>
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<222> (1)..(1081)
<223> Xaa=Any amino acid

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Xaa
420 425 430
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435 440 445

SEQUENCE LISTING.ST25

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